

**NASA TECHNICAL  
MEMORANDUM**

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**SOLAR INDICES FOR THE PERIOD  
JANUARY 1, 1955 THROUGH DECEMBER 31, 1969**

**By H. C. Euler  
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**June 8, 1970**

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## DEFINITION OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
$K_p$	planetary 3-hour geomagnetic indices
$a_p$	three-hourly equivalent planetary amplitude indices
$A_p$	daily equivalent planetary amplitude indices
$C_p$	magnetic character figure
SF	daily solar flux (10.7 cm Ottawa) observed
SF27	daily solar flux 27-day running mean
SF54	daily solar flux 54-day running mean
SF81	daily solar flux 81-day running mean
SFMO	monthly average solar flux
SMSF	smoothed monthly solar flux
RZ	daily relative Zürich sunspot number (RZSN)
RZ27	daily RZSN 27-day running mean
RZ58	daily RZSN 54-day running mean
RZ81	daily RZSN 81-day running mean
RZMO	monthly average RZSN
SMRZ	smooth monthly RZSN
MJD	modified Julian day
JD	Julian day

## TECHNICAL MEMORANDUM X-64526

SOLAR INDICES FOR THE PERIOD JANUARY 1, 1955 THROUGH DECEMBER 1, 1969

### SUMMARY

This report lists solar-geomagnetic indices from January 1, 1955 through December 31, 1969 which may be used for model atmosphere studies. These tables contain daily sunspot number, solar 10.7 cm flux and the daily geomagnetic  $A_p$  index. Also included are the three-hourly  $K_p$  and  $a_p$  indices and 27-, 54-, and 81-day running means of sunspot numbers and solar flux.

### I. INTRODUCTION

Over the past few years, the Space Environment Branch has compiled tables of solar geomagnetic indices for use within model atmosphere studies. Originally the tables were compiled only for internal use within this organization; however, as a result of numerous external requests for these tables, we have decided to reproduce part of them in this report so that they will be more readily available to other users. The tables contain data for the period January 1, 1955 through December 31, 1969.

The author wishes to thank Mr. Ed Seely and Mr. John Chambers for their creative programming, part of which is shown in this report.

### II. SOLAR-GEOMAGNETIC INDICES TABLES

This report contains three tables of data for each month of the period January 1, 1955 through December 31, 1969. The first table lists the eight individual three-hourly  $K_p$  index values and the sum and the average of these values for each day of the month. The second table lists similar data for the equivalent planetary amplitude index,  $a_p$ , and a single daily value for the  $C_p$  index. The third table lists daily mean values, 27-, 54-, and 81-day running mean values of the 10.7 cm solar radio flux and the relative Zürich sunspot number plus a monthly average and a monthly smoothed average for each of these parameters. The running means cover the day on which they are listed and the preceding 26-, 53-, or 80-day period, as appropriate. The monthly smoothed average



values are computed by giving equal weight to the current month and the 5 months preceding and succeeding it plus one-half weight to the sixth month before and after the month of record.

### III. GEOMAGNETIC DATA SOURCE

The geomagnetic index values are those prepared by the Institute for Geophysik, Göttingen, Germany, for the International Union of Geodesy and Geophysics (IUGG), Association of Geomagnetism and Aeronomy, Commission Number 4. These values were converted to decimal format by subtracting 0.333 from a reported numerical value followed by a minus sign and by adding 0.333 to a reported value followed by a plus sign. The  $K_p$  values were converted to  $a_p$  values using the following conversion table:

TABLE 1

A Conversion from the Quasi-Logarithmic Planetary Three-Hour Index  $K_p$  to the Three-Hour Equivalent Planetary Amplitude  $a_p$

Subscript	Decimal	
$K_p$	$K_p$	$a_p$
0o	.000	0
0+	.333	2
1-	.667	3
1o	1.000	4
1+	1.333	5
2-	1.667	6
2o	2.000	7
2+	2.333	9
3-	2.667	12
3o	3.000	15
3+	3.333	18
4-	3.667	22
4o	4.000	27
4+	4.333	32
5-	4.667	39
5o	5.000	48
5+	5.333	56
6-	5.667	67
6o	6.000	80
6+	6.333	94

TABLE 1 (Continued)

Subscript	Decimal	
$K_p$	$K_p$	$a_p$
7-	6.667	111
7o	7.000	132
7+	7.333	154
8-	7.667	179
8o	8.000	207
8+	8.333	236
9-	8.667	300
9o	9.000	400

42

# QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY OF JULIAN	KP												AVG. KP	
		1	2	3	4	5	6	7	8	9	10	11	12		
1	35108	1	1.333	1.333	1.333	2.000	1.000	1.333	2.000	1.333	1.333	2.000	2.333	12.667	1.533
2	35109	2	2.667	1.333	2.333	1.667	1.000	1.667	1.667	1.667	1.667	1.667	1.667	13.000	1.625
3	35110	3	.667	.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	.333	1.333	9.333	1.167
4	35111	4	3.667	2.333	1.333	2.333	2.667	2.000	2.333	2.000	2.333	2.000	2.333	18.667	2.333
5	35112	5	1.333	.667	1.000	.333	1.000	1.333	2.333	3.000	1.333	3.000	11.000	1.375	1.375
6	35113	6	2.667	3.333	1.667	1.333	1.667	1.667	2.333	1.667	1.667	2.333	1.333	16.000	2.000
7	35114	7	2.000	2.000	2.000	1.667	2.333	2.333	2.000	2.333	2.000	1.667	16.000	2.000	2.000
8	35115	8	1.333	.333	1.667	.667	.333	.667	2.000	2.667	.667	2.667	9.667	1.208	1.208
9	35116	9	4.000	2.667	4.000	3.000	3.667	4.667	3.333	1.000	2.667	3.333	1.000	26.333	3.292
10	35117	10	1.000	.667	1.000	1.000	.667	1.333	2.333	.667	1.333	2.333	.000	8.000	1.000
11	35118	11	2.333	1.667	.667	1.000	4.667	.000	.333	.333	.333	1.333	.333	11.667	1.458
12	35119	12	5.000	2.333	1.667	.667	.000	.000	.333	.333	.333	1.333	.333	11.667	1.458
13	35120	13	3.000	4.000	3.333	3.667	3.000	3.000	2.333	2.000	2.333	2.000	1.667	23.000	2.875
14	35121	14	1.000	1.333	1.333	1.667	2.667	2.667	2.000	3.333	.333	3.333	.333	13.667	1.708
15	35122	15	.333	.333	.333	.333	.000	.000	.000	.000	.000	.000	.333	1.667	.208
16	35123	16	1.333	1.000	1.000	2.333	2.333	2.333	2.000	2.333	2.000	2.333	2.000	14.333	1.792
17	35124	17	1.333	3.000	3.000	4.000	6.667	6.667	5.667	5.000	5.333	34.000	5.333	34.000	4.250
18	35125	18	7.667	7.000	5.667	1.667	2.333	2.333	4.333	4.000	3.667	36.333	3.667	36.333	4.542
19	35126	19	5.000	6.333	6.333	5.333	4.667	4.667	4.000	4.000	4.000	4.667	40.333	5.042	5.042
20	35127	20	4.333	3.667	2.333	1.000	2.333	2.333	3.667	3.333	3.667	23.000	3.667	23.000	2.875
21	35128	21	4.000	2.667	2.000	.667	.667	.667	1.000	2.000	2.333	15.333	2.333	15.333	1.917
22	35129	22	2.667	2.000	2.000	.667	1.000	1.000	.667	.667	.667	10.667	1.000	10.667	1.333
23	35130	23	2.667	2.333	2.333	2.333	3.000	3.000	2.667	3.333	2.667	2.333	2.667	21.333	2.667
24	35131	24	1.667	1.667	1.000	.333	.667	.667	1.667	.667	.667	8.667	1.000	8.667	1.083
25	35132	25	1.000	1.333	1.000	.333	1.000	1.000	1.000	1.000	.667	7.333	.667	7.333	.917
26	35133	26	.667	.667	1.000	.667	.667	.667	.667	.667	.667	.667	.667	4.000	.500
27	35134	27	.000	.000	1.333	2.333	1.333	1.333	3.333	3.667	4.000	16.000	4.000	16.000	2.000
28	35135	28	3.000	2.667	2.333	1.667	.667	.667	1.333	1.000	2.333	14.667	2.333	14.667	1.833
29	35136	29	1.333	1.000	.667	.667	1.333	.667	1.333	2.667	3.667	12.667	3.667	12.667	1.583
30	35137	30	1.667	2.333	.667	1.667	2.667	2.667	2.000	2.333	2.000	15.333	2.000	15.333	1.917
31	35138	31	1.667	1.333	1.333	.667	.333	.333	.667	1.000	2.333	9.333	2.333	9.333	1.167

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

5

JANUARY 1955

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	MOD. JULIAN DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1
DAY	MOD. JULIAN DAY	DAY	MOD. JULIAN DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY
1	35108	1	1	77.0	75.1	74.2	73.3	1	22
2	35109	2	1	75.0	75.2	74.2	73.3	1	17
3	35110	3	1	74.0	75.3	74.1	73.3	1	12
4	35111	4	1	80.0	75.6	74.0	73.3	1	20
5	35112	5	1	86.0	76.1	74.1	73.5	1	32
6	35113	6	1	97.0	77.0	74.5	73.8	1	40
7	35114	7	1	101.0	78.1	74.9	74.1	1	54
8	35115	8	1	100.0	79.1	75.4	74.4	1	54
9	35116	9	1	99.0	80.1	75.9	74.7	1	35
10	35117	10	1	94.0	80.8	76.2	75.0	1	33
11	35118	11	1	96.0	81.4	76.7	75.3	1	30
12	35119	12	1	97.0	82.0	77.1	75.6	1	29
13	35120	13	1	93.0	82.6	77.5	75.9	1	28
14	35121	14	1	92.0	83.1	78.0	76.2	1	27
15	35122	15	1	89.0	83.5	78.4	76.4	1	17
16	35123	16	1	86.0	83.8	78.6	76.6	1	16
17	35124	17	1	84.0	84.1	78.9	76.7	1	15
18	35125	18	1	81.0	84.4	79.1	76.9	1	11
19	35126	19	1	81.0	84.6	79.3	77.0	1	10
20	35127	20	1	76.0	84.5	79.4	77.1	1	7
21	35128	21	1	74.0	84.4	79.5	77.1	1	8
22	35129	22	1	74.0	84.4	79.6	77.2	1	8
23	35130	23	1	74.0	84.5	79.7	77.3	1	14
24	35131	24	1	74.0	84.7	79.7	77.5	1	22
25	35132	25	1	74.0	84.9	79.8	77.6	1	21
26	35133	26	1	79.0	85.0	79.9	77.7	1	25
27	35134	27	1	74.0	84.9	79.9	77.7	1	25
28	35135	28	1	77.0	84.9	80.0	77.8	1	19
29	35136	29	1	79.0	85.0	80.1	77.8	1	22
30	35137	30	1	81.0	85.3	80.3	77.8	1	22
31	35138	31	1	82.0	85.3	80.5	77.8	1	22

MONTHLY AVERAGE 84.2  
MONTHLY SMOOTHED 76.923.1  
14.2

FEBRUARY 1955

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35139	32	0.000	0.000	0.333	1.333	1.000	1.000	1.333	5.667	0.708
2	35140	33	1.000	0.333	1.333	1.333	1.667	1.667	1.667	10.000	1.250
3	35141	34	3.667	3.333	2.333	1.333	1.000	1.667	1.000	2.333	16.667
4	35142	35	1.000	2.333	2.667	4.667	3.000	3.000	4.000	24.667	3.083
5	35143	36	3.667	2.333	2.667	2.667	2.333	3.333	4.000	24.000	3.000
6	35144	37	1.667	3.333	2.667	2.333	3.000	3.333	2.667	22.667	2.833
7	35145	38	3.667	4.000	2.667	2.000	4.000	3.000	1.000	22.333	2.792
8	35146	39	2.000	1.667	1.667	2.000	1.667	3.667	3.667	20.000	2.500
9	35147	40	2.333	2.667	3.667	3.333	2.000	2.333	2.667	20.000	2.500
10	35148	41	1.333	1.333	2.667	1.667	1.333	1.000	1.667	12.667	1.583
11	35149	42	0.667	1.000	1.000	1.333	2.000	3.667	4.667	19.000	2.375
12	35150	43	3.333	3.333	2.333	2.000	2.333	2.000	2.667	21.667	2.708
13	35151	44	4.000	3.000	1.667	3.333	1.667	3.000	0.000	19.000	2.375
14	35152	45	1.333	2.667	2.667	2.000	2.333	3.000	3.667	20.000	2.500
15	35153	46	3.333	3.000	3.333	2.000	0.667	0.000	0.000	12.333	1.542
16	35154	47	0.000	0.333	1.000	2.333	2.667	2.333	2.000	12.333	1.542
17	35155	48	3.000	2.000	1.000	2.000	2.000	0.333	1.667	12.333	1.542
18	35156	49	1.333	3.333	2.000	1.333	0.333	0.000	2.667	14.333	1.792
19	35157	50	2.000	2.333	2.333	2.333	1.667	1.000	1.333	12.333	1.542
20	35158	51	1.000	2.667	2.000	2.000	2.667	2.000	1.000	16.000	2.000
21	35159	52	3.000	4.667	3.000	2.000	2.667	2.333	2.000	21.333	2.667
22	35160	53	3.000	4.333	2.667	3.667	3.000	2.000	2.667	24.000	3.000
23	35161	54	3.333	3.000	3.000	4.333	4.333	4.000	2.333	28.333	3.542
24	35162	55	2.667	3.000	2.667	2.000	3.333	2.667	1.667	19.333	2.417
25	35163	56	3.667	3.667	1.667	3.333	2.333	2.667	2.333	21.333	2.667
26	35164	57	3.333	4.000	1.333	2.000	1.333	0.667	1.000	15.333	1.917
27	35165	58	0.000	0.333	1.667	1.000	1.333	1.333	2.000	10.000	1.250
28	35166	59	5.333	6.000	4.000	3.667	5.000	0.667	1.667	29.667	3.708

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN OF DAY	DAY OF YEAR	MAGNETIC CHARACTER									
			1	2	3	4	5	6	7	8	AP	AVG
1	35139	32	0	0	2	3	5	4	4	5	2.875	.1
2	35140	33	4	2	5	4	5	6	6	6	4.750	.3
3	35141	34	22	16	9	5	4	8	4	9	9.625	.5
4	35142	35	4	9	12	39	15	15	27	27	18.500	1.2
5	35143	36	22	9	12	12	15	9	10	27	15.500	.9
6	35144	37	6	18	12	9	15	14	12	22	14.000	.9
7	35145	38	22	27	12	7	27	15	7	4	15.125	.9
8	35146	39	7	6	6	7	6	22	22	22	12.250	1.0
9	35147	40	9	12	22	18	7	9	12	4	11.625	.5
10	35148	41	5	5	12	6	5	4	6	6	6.125	.2
11	35149	42	3	4	4	5	7	22	39	39	15.375	1.1
12	35150	43	18	18	9	7	9	7	12	22	12.750	.8
13	35151	44	27	15	6	18	6	15	9	0	12.000	.7
14	35152	45	5	12	12	7	9	15	9	22	11.375	.8
15	35153	46	18	15	18	7	3	0	0	0	7.625	.4
16	35154	47	0	2	4	9	12	6	9	7	6.125	.5
17	35155	48	15	7	4	7	7	2	2	6	6.250	.3
18	35156	49	5	18	7	5	2	0	12	18	8.375	.5
19	35157	50	7	9	9	3	6	4	4	5	5.875	.2
20	35158	51	4	12	7	7	12	7	12	4	8.125	.6
21	35159	52	15	39	15	7	12	9	7	6	13.750	.9
22	35160	53	15	32	12	22	15	7	12	12	15.875	.9
23	35161	54	14	15	15	32	32	27	27	9	21.875	1.2
24	35162	55	12	15	12	7	18	5	12	6	10.875	.9
25	35163	56	22	22	6	18	9	12	5	12	13.250	.8
26	35164	57	18	27	5	7	5	3	6	4	9.375	.5
27	35165	58	0	2	6	4	5	5	7	9	4.750	.3
28	35166	59	56	80	27	22	48	14	3	6	32.500	1.4

FEBRUARY 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. JULIAN DAY	DAY YEAR	1--SOLAR FLUX(10.7CM OTTAWA)--	1--RELATIVE ZURICH SUNSPOT NUMBER--	1--RUNNING MEANS--	1--RUNNING MEANS--	1--RELATIVE ZURICH SUNSPOT NUMBER--	1--RUNNING MEANS--	1--RELATIVE ZURICH SUNSPOT NUMBER--
DAY	YEAR	1	54-DAY	81-DAY	DAILY 27-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY
1	35139	32	1	81.0	85.1	80.6	77.8	1	19
2	35140	33	1	83.0	84.6	80.8	77.9	1	28
3	35141	34	1	86.0	84.1	81.1	78.0	1	33
4	35142	35	1	87.0	83.6	81.4	78.1	1	34
5	35143	36	1	82.0	83.0	81.5	78.2	1	32
6	35144	37	1	84.0	82.6	81.7	78.4	1	28
7	35145	38	1	86.0	82.2	81.8	78.5	1	34
8	35146	39	1	88.0	81.9	81.9	78.7	1	24
9	35147	40	1	89.0	81.7	82.1	78.9	1	28
10	35148	41	1	82.0	81.4	82.2	79.1	1	27
11	35149	42	1	79.0	81.0	82.2	79.2	1	27
12	35150	43	1	82.0	80.9	82.3	79.4	1	26
13	35151	44	1	85.0	80.9	82.5	79.5	1	27
14	35152	45	1	81.0	80.9	82.6	79.7	1	10
15	35153	46	1	80.0	80.9	82.7	79.8	1	8
16	35154	47	1	76.0	80.9	82.7	79.9	1	16
17	35155	48	1	73.0	80.8	82.6	80.0	1	9
18	35156	49	1	76.0	80.9	82.7	80.0	1	0
19	35157	50	1	77.0	81.0	82.7	80.1	1	0
20	35158	51	1	82.0	81.1	82.7	80.2	1	0
21	35159	52	1	79.0	81.1	83.0	80.2	1	7
22	35160	53	1	76.0	81.0	83.0	80.3	1	9
23	35161	54	1	83.0	81.3	83.1	80.4	1	19
24	35162	55	1	84.0	81.6	83.2	80.5	1	26
25	35163	56	1	81.0	81.7	83.3	80.6	1	28
26	35164	57	1	81.0	81.7	83.5	80.7	1	28
27	35165	58	1	80.0	81.6	83.5	80.8	1	28
28	35166	59	1	79.0	81.5	83.3	80.9	1	26
MONTHLY AVERAGE			81.5						20.7
MONTHLY SMOOTHED			78.6						16.4



MARCH 1955

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOO. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35167	60	.667	1.000	.333	.667	1.000	1.333	1.000	7.000	.875
2	35168	61	1.667	1.333	1.333	.667	.667	.667	.333	8.000	1.000
3	35169	62	.000	2.000	2.000	1.333	.333	.000	.000	6.667	.833
4	35170	63	.333	1.000	.667	1.333	.000	2.000	2.333	8.000	1.000
5	35171	64	2.333	2.667	1.667	1.667	2.333	2.333	3.333	18.000	2.250
6	35172	65	4.000	2.333	2.000	2.667	2.333	3.000	2.333	20.000	2.500
7	35173	66	4.667	3.667	3.333	3.333	1.333	6.000	4.000	30.667	3.833
8	35174	67	3.667	2.667	3.333	2.000	4.333	4.000	3.000	25.000	3.125
9	35175	68	3.667	3.333	3.667	2.667	3.000	5.000	3.333	28.667	3.583
10	35176	69	2.667	3.000	4.333	4.000	4.333	4.000	3.667	28.667	3.583
11	35177	70	3.333	3.333	4.000	3.667	4.000	3.667	2.000	1.333	25.333
12	35178	71	4.000	4.333	3.667	2.667	3.000	3.667	3.333	28.333	3.542
13	35179	72	2.667	3.000	2.667	2.000	2.333	4.000	2.667	22.000	2.750
14	35180	73	4.000	2.333	1.000	2.333	2.333	3.333	3.000	22.000	2.750
15	35181	74	3.333	4.000	4.333	3.333	2.667	3.000	3.000	25.333	3.167
16	35182	75	3.000	3.667	1.667	1.333	.667	2.000	2.667	17.667	2.208
17	35183	76	3.333	2.000	3.333	3.333	2.667	1.333	2.000	21.000	2.625
18	35184	77	2.333	1.333	2.667	3.000	2.667	3.667	2.000	22.333	2.792
19	35185	78	2.667	1.000	1.667	.667	.667	1.333	1.000	11.000	1.375
20	35186	79	1.667	1.333	2.000	1.333	.667	.667	3.333	12.333	1.542
21	35187	80	3.333	1.000	1.667	1.667	1.000	2.333	2.667	15.333	1.917
22	35188	81	1.667	2.000	3.000	5.000	6.000	3.667	2.333	30.000	3.750
23	35189	82	2.000	1.000	2.000	1.000	3.333	4.000	5.333	23.667	2.958
24	35190	83	3.667	4.000	3.000	3.000	2.000	1.000	.667	18.333	2.292
25	35191	84	.333	.333	2.000	2.000	.667	2.333	1.667	12.000	1.500
26	35192	85	.667	2.333	4.000	3.333	3.333	.667	2.333	19.000	2.375
27	35193	86	1.000	1.667	1.667	4.333	2.667	2.333	1.667	17.000	2.125
28	35194	87	2.000	1.000	2.333	1.667	1.000	.333	2.000	10.667	1.333
29	35195	88	1.667	1.000	1.333	1.333	1.000	.000	.333	7.000	.875
30	35196	89	1.333	.333	1.000	3.000	2.667	4.333	5.667	20.333	2.542
31	35197	90	6.000	6.000	6.333	5.000	3.333	4.667	4.333	40.000	5.000

GEOMAGNETIC PLANETARY INDICES

11

MARCH 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
		35167	60	1	78.0	81.3	83.0	81.0	1	23	20.6	21.0	19.1																			
		35168	61	1	77.0	81.0	82.5	81.1	1	20	20.1	21.2	17.4																			
		35169	62	1	77.0	80.6	82.1	81.1	1	16	19.5	20.5	19.6																			
		35170	63	1	74.0	80.3	81.6	81.1	1	15	18.9	20.1	19.8																			
		35171	64	1	78.0	80.1	81.4	81.2	1	8	18.1	19.6	19.9																			
		35172	65	1	77.0	79.8	81.0	81.1	1	8	17.1	19.2	19.7																			
		35173	66	1	74.0	79.3	80.6	81.0	1	8	16.6	18.9	19.7																			
		35174	67	1	74.0	78.7	80.2	81.0	1	8	15.8	18.5	19.6																			
		35175	68	1	74.0	78.4	79.9	81.0	1	7	15.1	18.1	19.5																			
		35176	69	1	78.0	78.4	79.7	81.0	1	0	14.1	17.8	19.2																			
		35177	70	1	72.0	78.0	79.4	80.9	1	0	13.1	17.5	19.0																			
		35178	71	1	73.0	77.6	79.2	80.9	1	0	12.1	17.2	18.9																			
		35179	72	1	74.0	77.3	79.1	80.9	1	0	11.7	17.0	18.8																			
		35180	73	1	74.0	77.1	79.0	80.8	1	0	11.4	16.8	18.7																			
		35181	74	1	74.0	77.0	78.9	80.8	1	0	10.9	16.7	18.5																			
		35182	75	1	74.0	77.0	78.9	80.8	1	0	10.5	16.6	18.3																			
		35183	76	1	71.0	76.9	78.9	80.7	1	0	10.5	16.4	18.2																			
		35184	77	1	74.0	76.7	78.9	80.7	1	0	10.5	16.1	18.2																			
		35185	78	1	74.0	76.4	78.8	80.8	1	0	10.5	15.7	19.2																			
		35186	79	1	74.0	76.3	78.7	80.8	1	0	10.3	15.4	18.1																			
		35187	80	1	73.0	76.1	78.6	80.7	1	0	9.9	14.9	17.7																			
		35188	81	1	72.0	75.7	78.5	80.6	1	0	9.2	14.4	17.4																			
		35189	82	1	71.0	75.3	78.4	80.6	1	0	8.3	14.1	17.1																			
		35190	83	1	71.0	74.9	78.3	80.5	1	0	7.2	13.7	16.9																			
		35191	84	1	74.0	74.6	78.1	80.5	1	0	6.2	13.3	16.8																			
		35192	85	1	74.0	74.4	78.0	80.4	1	0	5.1	12.9	16.5																			
		35193	86	1	75.0	74.3	77.9	80.3	1	7	4.4	12.6	16.2																			
		35194	87	1	75.0	74.1	77.7	80.0	1	0	3.6	12.1	15.7																			
		35195	88	1	75.0	74.1	77.5	79.7	1	7	3.1	11.6	15.2																			
		35196	89	1	75.0	74.0	77.3	79.4	1	15	3.1	11.3	14.7																			
		35197	90	1	76.0	74.1	77.2	79.1	1	10	2.9	10.9	14.4																			

MONTHLY AVERAGE 74.4  
MONTHLY SMOOTHED 80.5

4.9  
19.5

APRIL 1955

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35198	91	3.333	3.333	3.333	2.667	3.000	2.000	1.000	1.333	5.000	21.667	2.708
2	35199	92	3.000	3.333	2.667	2.667	2.667	3.667	3.000	3.000	4.000	25.333	3.167
3	35200	93	2.333	2.667	2.667	2.667	3.333	3.000	2.667	2.333	1.667	20.667	2.583
4	35201	94	2.000	2.000	2.000	1.667	3.667	2.667	3.333	3.667	4.000	23.000	2.875
5	35202	95	4.333	3.000	3.000	3.667	3.000	4.667	1.667	3.000	1.667	25.000	3.125
6	35203	96	3.667	3.667	2.000	2.000	3.667	3.000	2.667	1.000	3.667	23.333	2.917
7	35204	97	4.333	4.000	3.333	3.000	4.000	2.333	2.000	2.667	2.667	25.333	3.167
8	35205	98	2.000	2.667	3.000	3.000	1.000	1.333	2.000	1.333	2.333	15.667	1.958
9	35206	99	1.667	2.333	1.333	1.333	1.333	.333	.333	.667	3.000	11.000	1.375
10	35207	100	1.000	.333	.333	.333	3.667	4.000	3.000	1.333	2.333	16.000	2.000
11	35208	101	2.000	3.333	2.667	2.667	1.667	2.000	2.000	1.333	1.667	16.667	2.083
12	35209	102	3.000	3.333	2.333	2.333	2.333	3.000	1.333	2.333	2.667	20.333	2.542
13	35210	103	4.000	4.000	2.667	2.667	2.000	2.000	2.333	2.333	4.000	23.333	2.917
14	35211	104	2.667	3.000	2.333	2.333	2.333	1.667	.667	.333	.667	13.667	1.708
15	35212	105	1.333	1.333	1.333	1.333	1.000	2.333	2.000	1.000	1.000	11.333	1.417
16	35213	106	.667	1.000	1.000	1.000	.667	1.333	.667	2.000	1.667	9.000	1.125
17	35214	107	.667	.667	2.000	2.000	2.000	2.333	1.000	1.667	.667	11.000	1.375
18	35215	108	.333	.000	.000	.000	.667	1.000	1.667	.667	.333	4.667	.583
19	35216	109	1.333	2.000	2.667	.667	.333	.667	.667	1.000	1.000	7.667	.958
20	35217	110	2.000	2.667	3.667	3.667	.667	1.667	2.000	1.667	1.333	15.667	1.958
21	35218	111	1.333	1.667	2.333	2.333	1.667	2.667	2.000	1.333	2.000	15.000	1.875
22	35219	112	2.333	3.333	1.667	1.667	2.000	1.000	1.000	2.333	1.333	15.000	1.875
23	35220	113	.000	.333	.333	.333	1.333	1.333	1.000	.333	.333	5.000	.625
24	35221	114	1.667	2.000	1.667	1.667	1.667	5.000	4.000	3.667	4.333	24.000	3.000
25	35222	115	2.667	3.333	1.667	1.667	1.333	2.667	2.667	3.333	2.667	20.333	2.542
26	35223	116	3.667	3.333	3.333	3.333	3.667	2.000	1.667	3.000	4.000	24.667	3.083
27	35224	117	3.667	3.333	2.667	2.667	.667	1.333	4.667	7.667	7.333	31.333	3.917
28	35225	118	7.000	3.667	4.667	4.667	4.000	2.667	3.333	4.333	5.667	35.333	4.417
29	35226	119	5.000	3.667	3.333	3.333	3.667	3.667	3.667	4.333	4.333	31.667	3.958
30	35227	120	4.333	4.000	2.333	2.333	3.333	2.000	2.000	2.667	3.333	24.000	3.000

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	Avg AP	MAGNETIC CHARACTER
1	35198	91	10	18	12	15	7	4	5	48	15.875	1.1			
2	35199	92	15	18	12	12	22	15	15	27	17.000	1.0			
3	35200	93	9	12	12	18	15	12	9	6	11.625	.7			
4	35201	94	7	7	4	22	12	18	22	27	15.125	1.0			
5	35202	95	32	15	22	15	39	6	15	6	18.750	1.0			
6	35203	96	22	22	7	22	15	12	4	22	15.750	.9			
7	35204	97	32	27	18	27	9	7	12	12	16.000	1.0			
8	35205	98	7	12	15	4	5	7	5	9	8.000	.4			
9	35206	99	6	9	5	5	2	2	3	15	5.875	.3			
10	35207	100	4	2	2	22	27	15	5	9	10.750	.6			
11	35208	101	7	18	12	6	7	7	5	6	8.500	.4			
12	35209	102	15	10	9	9	15	5	7	12	11.500	.7			
13	35210	103	27	27	12	7	7	9	4	27	15.625	1.0			
14	35211	104	12	15	9	9	6	3	2	3	7.375	.2			
15	35212	105	5	5	5	4	9	7	4	4	5.375	.4			
16	35213	106	3	4	4	3	5	3	7	6	4.375	.1			
17	35214	107	3	3	7	7	9	4	6	3	5.250	.2			
18	35215	108	2	0	0	3	4	6	3	2	2.500	.1			
19	35216	109	5	7	3	2	3	3	4	4	3.875	.0			
20	35217	110	7	12	22	3	6	7	6	5	8.500	.5			
21	35218	111	5	6	9	6	12	7	5	7	7.125	.4			
22	35219	112	9	18	6	7	4	4	9	5	7.750	.5			
23	35220	113	0	2	2	5	5	4	2	2	2.750	.0			
24	35221	114	6	7	6	6	48	27	22	32	19.250	1.3			
25	35222	115	12	18	4	5	12	12	18	12	11.875	.8			
26	35223	116	22	18	18	22	7	6	15	27	16.875	1.0			
27	35224	117	22	18	12	3	5	39	179	154	54.000	1.7			
28	35225	118	132	22	39	27	12	18	32	67	43.625	1.6			
29	35226	119	48	22	18	22	22	22	32	32	27.250	1.3			
30	35227	120	32	27	9	18	7	7	12	18	16.250	.9			

APRIL 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	MOD. YEAR	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS---	1---RUNNING MEANS---	DAILY 27-DAY	DAILY 54-DAY	DAILY 81-DAY	54-DAY	81-DAY
1	35198	91	77.0	74.0	77.1	78.9	1	9	2.9	10.5	14.1
2	35199	92	78.0	74.1	76.9	78.7	1	14	3.1	10.1	13.9
3	35200	93	77.0	74.2	76.7	78.4	1	8	3.1	9.9	13.6
4	35201	94	77.0	74.3	76.5	78.2	1	21	3.6	9.7	13.5
5	35202	95	81.0	74.6	76.5	78.1	1	36	4.7	9.7	13.6
6	35203	96	82.0	74.7	76.5	78.0	1	30	5.8	9.9	13.8
7	35204	97	79.0	75.0	76.5	77.9	1	32	7.0	10.1	14.0
8	35205	98	79.0	75.2	76.4	77.9	1	31	8.1	10.1	14.2
9	35206	99	79.0	75.4	76.3	77.9	1	19	8.9	10.3	14.3
10	35207	100	76.0	75.4	76.3	77.8	1	10	9.2	10.3	14.3
11	35208	101	78.0	75.6	76.3	77.8	1	0	9.2	10.0	14.2
12	35209	102	75.0	75.6	76.3	77.8	1	0	9.2	9.9	14.1
13	35210	103	75.0	75.8	76.3	77.8	1	0	9.2	9.9	14.0
14	35211	104	74.0	75.8	76.3	77.8	1	0	9.2	9.9	13.8
15	35212	105	79.0	76.0	76.2	77.8	1	7	9.5	10.0	13.7
16	35213	106	77.0	76.1	76.2	77.8	1	9	9.8	10.0	13.5
17	35214	107	75.0	76.1	76.1	77.8	1	13	10.3	10.1	13.4
18	35215	108	75.0	76.3	76.0	77.8	1	0	10.3	9.8	13.0
19	35216	109	74.0	76.4	75.8	77.7	1	0	10.3	9.3	12.8
20	35217	110	75.0	76.5	75.7	77.7	1	0	10.3	8.8	12.5
21	35218	111	75.0	76.6	75.6	77.6	1	8	10.6	8.4	12.4
22	35219	112	75.0	76.6	75.5	77.5	1	0	10.6	7.9	12.1
23	35220	113	75.0	76.6	75.4	77.5	1	0	10.3	7.4	11.9
24	35221	114	75.0	76.6	75.4	77.4	1	8	10.6	7.1	11.6
25	35222	115	73.0	76.5	75.3	77.2	1	0	10.4	6.7	11.2
26	35223	116	75.0	76.5	75.3	77.0	1	0	9.8	6.4	10.8
27	35224	117	80.0	76.7	75.4	77.0	1	10	9.8	6.4	10.5
28	35225	118	79.0	76.7	75.4	77.0	1	22	10.3	6.6	10.4
29	35226	119	80.0	76.8	75.4	76.9	1	23	10.6	6.9	10.3
30	35227	120	79.0	76.9	75.5	76.8	1	29	11.4	7.3	10.4

MONTHLY AVERAGE 76.9  
MONTHLY SMOOTHED 83.2

11.3  
23.4

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOU. DAY		JULIAN OF										AVG. KP			
	DAY	YEAR	1	2	KP	3	KP	4	KP	5	KP	6		KP	7	KP
1	35228	121	2.333	2.667	1.000	1.000	.333	.667	1.333	2.000	11.333	1.417				
2	35229	122	.333	.333	1.333	1.333	2.000	1.667	1.667	1.667	10.000	1.250				
3	35230	123	2.000	1.333	1.667	1.000	1.000	2.000	2.000	1.333	12.333	1.542				
4	35231	124	1.333	.333	.333	1.333	2.000	1.667	1.667	2.333	11.333	1.417				
5	35232	125	1.667	2.333	2.000	1.667	2.667	3.333	3.333	2.333	17.667	2.208				
6	35233	126	3.333	3.000	3.000	4.333	6.000	3.333	3.333	5.333	31.667	3.958				
7	35234	127	4.667	4.333	4.333	4.333	2.333	2.667	3.000	4.000	29.667	3.708				
8	35235	128	4.000	5.333	3.667	4.000	4.667	3.667	4.333	4.333	34.000	4.250				
9	35236	129	2.333	2.333	2.333	1.667	1.667	2.000	2.333	2.333	17.000	2.125				
10	35237	130	2.667	3.000	2.000	3.333	1.000	1.667	2.000	2.667	18.333	2.292				
11	35238	131	1.000	1.333	2.000	1.000	.667	1.333	1.333	1.000	9.667	1.208				
12	35239	132	1.000	1.667	1.667	1.333	1.000	1.333	2.000	3.333	13.333	1.667				
13	35240	133	2.667	.667	2.000	2.333	2.333	2.333	2.667	2.333	17.333	2.167				
14	35241	134	2.333	3.333	3.000	3.667	2.000	2.333	2.000	2.000	20.667	2.583				
15	35242	135	2.000	2.333	2.000	.333	.667	1.000	1.333	2.000	11.667	1.458				
16	35243	136	3.667	5.333	2.333	2.667	1.333	.667	.667	1.000	17.667	2.208				
17	35244	137	1.333	1.333	1.333	.667	.667	.667	.000	1.333	7.333	.917				
18	35245	138	1.667	1.333	.667	.000	1.000	2.000	1.000	.667	8.333	1.042				
19	35246	139	.667	.667	1.333	.667	.667	.667	.667	.667	6.000	.750				
20	35247	140	.667	2.000	1.000	2.000	1.000	1.333	1.333	1.667	11.000	1.375				
21	35248	141	.333	.667	.667	.667	1.667	1.000	.333	1.333	6.667	.833				
22	35249	142	1.667	1.667	.667	.667	.333	1.000	2.000	1.000	9.000	1.125				
23	35250	143	.333	.333	.333	.667	1.333	1.333	.000	.333	4.667	.583				
24	35251	144	.333	.667	1.000	.667	1.000	1.333	1.333	.667	7.000	.875				
25	35252	145	1.000	.667	.333	.333	4.000	4.000	6.333	6.667	23.333	2.917				
26	35253	146	6.333	6.000	4.667	5.333	2.667	3.333	2.000	2.000	31.667	3.958				
27	35254	147	1.667	1.333	1.667	1.000	4.000	4.667	5.000	4.333	23.667	2.958				
28	35255	148	4.000	4.333	4.667	4.333	3.667	2.333	2.333	3.000	28.667	3.583				
29	35256	149	2.333	2.000	2.667	2.000	1.333	2.333	.667	1.667	15.000	1.875				
30	35257	150	.667	.333	1.667	.667	1.000	2.000	1.333	1.333	9.000	1.125				
31	35258	151	1.667	1.667	2.000	1.000	1.000	1.000	1.000	1.667	11.000	1.375				

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

17



MAY 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	SOLAR FLUX (10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER						
			DAILY	27-DAY	54-DAY	DAILY	27-DAY	54-DAY				
1	35228	121	1	81.0	77.0	75.7	76.7	1	23	11.5	7.6	10.3
2	35229	122	1	79.0	77.0	75.8	76.6	1	21	10.9	7.8	10.2
3	35230	123	1	83.0	77.0	75.9	76.7	1	32	11.0	8.4	10.3
4	35231	124	1	82.0	77.1	76.0	76.7	1	45	11.5	9.2	10.5
5	35232	125	1	82.0	77.2	76.2	76.7	1	44	12.0	10.1	10.7
6	35233	126	1	83.0	77.4	76.4	76.7	1	28	12.3	10.6	11.0
7	35234	127	1	81.0	77.6	76.5	76.7	1	20	12.7	10.9	11.1
8	35235	128	1	79.0	77.8	76.6	76.7	1	17	13.3	11.3	11.1
9	35236	129	1	77.0	77.7	76.6	76.8	1	0	13.3	11.3	11.0
10	35237	130	1	77.0	77.7	76.8	76.8	1	0	13.3	11.3	11.0
11	35238	131	1	75.0	77.8	76.8	76.8	1	9	13.6	11.4	11.1
12	35239	132	1	75.0	77.6	76.8	76.7	1	7	13.6	11.6	11.2
13	35240	133	1	73.0	77.5	76.8	76.6	1	0	13.3	11.6	11.1
14	35241	134	1	72.0	77.4	76.8	76.6	1	0	12.8	11.6	11.0
15	35242	135	1	73.0	77.3	76.8	76.4	1	7	13.1	11.7	10.9
16	35243	136	1	74.0	77.3	76.8	76.3	1	16	13.7	12.0	10.7
17	35244	137	1	79.0	77.4	77.0	76.3	1	29	14.7	12.5	10.8
18	35245	138	1	77.0	77.5	77.0	76.2	1	32	15.6	13.1	10.8
19	35246	139	1	77.0	77.6	77.1	76.2	1	34	16.9	13.7	10.9
20	35247	140	1	86.0	78.0	77.3	76.3	1	45	18.6	14.4	11.1
21	35248	141	1	93.0	78.7	77.6	76.5	1	53	20.2	15.4	11.5
22	35249	142	1	92.0	79.4	77.9	76.7	1	53	22.2	16.3	11.9
23	35250	143	1	91.0	80.0	78.2	76.8	1	50	24.0	16.9	12.3
24	35251	144	1	90.0	80.3	78.5	77.0	1	48	25.4	17.6	12.7
25	35252	145	1	91.0	80.8	78.8	77.2	1	45	26.3	18.3	13.2
26	35253	146	1	91.0	81.2	79.0	77.4	1	45	27.1	18.9	13.6
27	35254	147	1	92.0	81.7	79.3	77.6	1	45	27.7	19.6	14.1
28	35255	148	1	87.0	81.9	79.5	77.7	1	45	28.5	20.0	14.5
29	35256	149	1	87.0	82.2	79.6	77.9	1	44	29.4	20.1	15.0
30	35257	150	1	79.0	82.0	79.5	77.9	1	36	29.5	20.3	15.4
31	35258	151	1	80.0	82.0	79.5	78.0	1	24	28.7	20.1	15.7

MONTHLY AVERAGE 81.9  
MONTHLY SMOOTHED 87.2

28.9  
28.8

JUNE 1955

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUN KP	AVG. KP
1	35259 152	1.667	2.333	1.667	1.000	2.667	2.667	1.333	1.000	14.333	1.792
2	35260 153	2.000	1.333	2.333	1.667	2.333	1.333	1.333	1.667	14.000	1.750
3	35261 154	1.000	1.667	1.333	1.000	1.000	2.000	2.333	1.667	12.000	1.500
4	35262 155	1.333	1.667	3.000	2.000	2.333	1.667	1.667	1.333	15.000	1.875
5	35263 156	1.000	.333	1.000	1.667	1.333	1.667	1.667	.667	9.333	1.167
6	35264 157	.333	.667	1.333	1.000	1.667	2.333	4.000	4.000	15.333	1.917
7	35265 158	3.000	3.000	2.000	2.667	2.667	2.000	1.000	3.333	20.000	2.500
8	35266 159	3.000	5.000	3.000	2.667	4.000	4.667	2.333	3.667	28.333	3.542
9	35267 160	.333	1.667	2.333	2.333	2.667	1.333	2.000	2.667	15.333	1.917
10	35268 161	1.667	1.000	1.667	1.667	1.000	1.333	1.000	.667	10.000	1.250
11	35269 162	.333	.667	1.333	2.000	2.000	1.667	1.667	3.000	12.667	1.583
12	35270 163	2.333	3.000	2.333	2.667	3.333	.667	1.333	2.333	18.000	2.250
13	35271 164	1.333	.667	2.333	1.333	3.333	2.667	2.000	2.333	16.000	2.000
14	35272 165	1.667	2.000	3.000	4.333	3.667	3.333	2.333	1.000	21.333	2.667
15	35273 166	3.667	3.667	4.333	3.667	3.000	2.333	3.000	3.333	27.000	3.375
16	35274 167	4.000	3.000	3.000	3.667	3.667	2.667	1.333	2.000	23.333	2.917
17	35275 168	2.333	2.333	2.667	3.667	2.667	2.667	1.667	3.000	21.000	2.625
18	35276 169	1.333	2.667	2.667	2.667	1.000	1.333	1.333	1.667	14.667	1.833
19	35277 170	3.333	3.333	2.333	2.000	2.000	1.667	1.000	.667	16.333	2.042
20	35278 171	1.000	1.000	1.333	1.000	1.333	3.000	1.667	1.000	11.333	1.417
21	35279 172	2.000	.667	.667	.667	1.000	1.000	1.000	1.000	8.000	1.000
22	35280 173	1.333	.667	.333	3.333	2.667	3.000	2.333	2.667	16.333	2.042
23	35281 174	3.333	3.333	3.333	1.667	2.000	2.000	4.667	4.000	24.000	3.000
24	35282 175	4.000	3.333	4.000	3.667	3.667	2.333	2.333	2.667	26.000	3.250
25	35283 176	3.000	1.667	3.667	3.333	2.667	1.333	2.667	1.000	19.333	2.417
26	35284 177	1.000	1.667	.333	.667	.667	1.000	.667	1.667	7.667	.958
27	35285 178	1.333	1.333	2.000	1.667	1.333	2.000	2.000	.667	12.333	1.542
28	35286 179	1.667	2.667	1.000	1.667	1.667	1.000	1.000	2.667	13.333	1.667
29	35287 180	1.667	.667	1.333	2.000	2.000	1.333	2.333	1.000	12.333	1.542
30	35288 181	2.000	1.000	.667	.667	.333	.667	.667	.667	6.667	.833

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER											
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
1	35259	152	6	9	6	12	12	5	4	7.250	.1			
2	35260	153	7	5	9	7	5	5	6	6.500	.3			
3	35261	154	4	6	5	4	7	9	6	5.625	.4			
4	35262	155	5	6	5	7	9	6	5	7.375	.5			
5	35263	156	4	2	4	6	5	6	3	4.500	.0			
6	35264	157	2	3	5	4	6	7	27	10.375	.8			
7	35265	158	18	15	7	12	12	7	4	11.625	.9			
8	35266	159	15	48	15	12	27	39	9	23.375	1.2			
9	35267	160	2	6	9	9	12	5	7	7.750	.6			
10	35268	161	6	4	6	6	4	5	4	4.750	.1			
11	35269	162	2	3	5	7	7	6	15	6.375	.5			
12	35270	163	9	15	9	12	18	3	5	10.000	.6			
13	35271	164	5	3	9	5	18	12	7	8.500	.6			
14	35272	165	6	7	15	32	22	18	9	14.125	.9			
15	35273	166	22	22	32	22	15	9	15	19.375	.9			
16	35274	167	27	15	15	22	22	12	5	15.625	.9			
17	35275	168	9	9	12	22	12	12	6	12.125	.8			
18	35276	169	5	12	12	12	4	5	6	7.625	.3			
19	35277	170	18	18	9	7	7	6	4	9.000	.5			
20	35278	171	4	4	5	4	5	6	4	5.875	.4			
21	35279	172	7	3	3	3	4	4	4	4.000	.1			
22	35280	173	5	3	2	18	12	15	9	9.500	.9			
23	35281	174	18	18	15	6	7	7	39	17.125	1.1			
24	35282	175	27	18	27	22	22	9	12	18.250	1.1			
25	35283	176	15	6	22	18	12	5	12	11.750	.7			
26	35284	177	4	6	2	3	3	4	6	3.875	.2			
27	35285	178	5	5	7	6	5	7	7	5.625	.2			
28	35286	179	6	4	12	4	6	4	12	6.750	.4			
29	35287	180	6	3	5	7	7	5	9	5.750	.3			
30	35288	181	7	4	3	3	2	3	3	3.500	.0			

JUNE 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	DAILY 27-DAY	54-DAY	81-DAY	1	DAILY 27-DAY	54-DAY	81-DAY	1	RELATIVE ZURICH SUNSPOT NUMBER	1
1	35259	152	1	79.0	81.9	79.5	78.1	1	26	28.1	20.0	16.1	16.4
2	35260	153	1	79.0	81.7	79.5	78.1	1	25	28.0	20.1	16.4	16.5
3	35261	154	1	79.0	81.6	79.6	78.2	1	13	27.7	20.2	16.5	16.8
4	35262	155	1	79.0	81.6	79.6	78.3	1	22	27.9	20.6	16.8	17.1
5	35263	156	1	78.0	81.7	79.7	78.3	1	25	28.8	21.1	17.1	17.5
6	35264	157	1	76.0	81.6	79.7	78.4	1	32	30.0	21.6	17.8	18.1
7	35265	158	1	75.0	81.6	79.7	78.4	1	26	30.6	22.1	17.8	18.1
8	35266	159	1	79.0	81.8	79.7	78.5	1	23	31.2	22.4	18.1	18.4
9	35267	160	1	84.0	82.2	79.8	78.6	1	24	32.1	22.7	18.4	18.7
10	35268	161	1	85.0	82.7	80.0	78.7	1	27	33.1	23.0	18.7	19.3
11	35269	162	1	92.0	83.4	80.3	79.0	1	48	34.6	23.9	19.3	19.9
12	35270	163	1	95.0	84.1	80.7	79.3	1	47	35.8	24.7	19.9	20.4
13	35271	164	1	97.0	84.8	81.1	79.6	1	40	36.2	25.5	20.4	21.1
14	35272	165	1	102.0	85.7	81.6	79.9	1	56	37.1	26.4	21.1	21.8
15	35273	166	1	102.0	86.7	82.1	80.3	1	53	37.8	27.3	21.8	22.4
16	35274	167	1	108.0	87.5	82.7	80.7	1	62	38.4	28.5	22.4	23.2
17	35275	168	1	107.0	88.0	83.3	81.1	1	65	38.9	29.5	23.2	23.9
18	35276	169	1	103.0	88.4	83.9	81.4	1	62	39.2	30.7	23.9	24.5
19	35277	170	1	105.0	88.9	84.4	81.8	1	61	39.6	31.8	24.5	25.2
20	35278	171	1	107.0	89.6	84.9	82.2	1	65	40.2	32.8	25.2	25.7
21	35279	172	1	101.0	89.9	85.4	82.5	1	55	40.6	33.4	25.7	26.0
22	35280	173	1	90.0	89.9	85.5	82.6	1	37	40.3	33.7	26.0	26.1
23	35281	174	1	93.0	89.9	85.8	82.8	1	15	39.2	33.4	26.1	25.8
24	35282	175	1	82.0	89.7	85.8	82.9	1	0	37.5	33.0	25.8	25.4
25	35283	176	1	77.0	89.4	85.8	82.8	1	0	35.9	32.6	25.4	25.0
26	35284	177	1	78.0	89.3	85.7	82.8	1	0	34.6	32.0	25.0	24.6
27	35285	178	1	78.0	89.3	85.6	82.8	1	0	33.7	31.2	24.6	24.3
28	35286	179	1	76.0	89.1	85.5	82.7	1	8	33.0	30.5	24.3	24.2
29	35287	180	1	80.0	89.2	85.4	82.8	1	11	32.5	30.2	24.2	24.4
30	35288	181	1	82.0	89.3	85.5	82.8	1	23	32.9	30.3	24.4	

MONTHLY AVERAGE 88.3  
MONTHLY SMOOTHED 92.1

31.7  
35.1

# GEO-MAGNETIC PLANETARY INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP										SUM KP	AVG. KP
		1	2	3	4	5	6	7	8	9			
1	35289 182	1.333	1.333	2.333	1.333	1.000	.667	.333	.667	.667	9.000	1.125	
2	35290 183	1.333	2.000	1.333	1.667	2.667	4.333	5.333	4.333	23.000	2.875		
3	35291 184	3.000	3.667	2.333	2.667	1.333	1.667	1.333	1.333	17.333	2.167		
4	35292 185	1.000	1.000	1.667	.333	.667	.333	.667	.333	6.000	.750		
5	35293 186	1.000	.667	.667	.333	.667	1.000	1.000	1.333	6.667	.833		
6	35294 187	.667	1.000	.667	.333	.667	2.000	2.000	3.333	10.667	1.333		
7	35295 188	3.333	3.333	2.333	1.667	2.333	2.000	1.333	1.667	18.000	2.250		
8	35296 189	1.000	1.667	2.000	3.333	2.333	3.667	2.667	1.667	18.333	2.292		
9	35297 190	1.667	1.333	1.000	2.333	2.000	.333	.667	2.000	11.333	1.417		
10	35298 191	1.333	1.667	2.000	3.000	4.000	3.000	2.333	2.333	19.667	2.458		
11	35299 192	3.000	2.000	3.333	4.667	3.667	3.333	2.667	3.000	25.667	3.208		
12	35300 193	3.333	1.667	3.000	3.667	3.000	2.333	2.667	4.000	25.667	3.208		
13	35301 194	3.333	2.000	.667	.667	2.667	2.667	1.000	1.333	14.333	1.792		
14	35302 195	1.333	1.333	2.000	2.000	2.000	1.333	1.333	.333	11.667	1.458		
15	35303 196	1.000	.667	.667	1.667	4.333	4.667	3.000	2.667	18.667	2.333		
16	35304 197	3.333	2.000	1.333	2.000	2.333	1.333	2.333	2.333	17.000	2.125		
17	35305 198	1.333	3.000	2.667	1.333	.667	.333	1.333	2.000	12.447	1.583		
18	35306 199	1.333	3.333	3.000	1.667	1.667	.667	1.000	.333	13.000	1.625		
19	35307 200	1.000	.667	.667	1.333	1.000	.667	.000	.667	6.000	.750		
20	35308 201	1.333	.667	.333	1.000	1.333	1.000	1.667	.667	8.000	1.000		
21	35309 202	1.333	.667	.000	.667	.333	.667	1.000	2.333	7.000	.875		
22	35310 203	1.000	1.000	.667	1.000	.667	1.000	.333	2.333	8.000	1.000		
23	35311 204	2.667	1.333	1.667	1.000	1.000	1.000	2.000	2.667	13.333	1.667		
24	35312 205	2.667	3.000	2.333	2.333	1.333	1.000	1.333	1.333	15.333	1.917		
25	35313 206	2.000	1.667	2.000	1.333	1.333	1.000	1.000	1.333	11.667	1.458		
26	35314 207	2.000	2.000	2.333	3.667	3.667	2.667	2.667	3.667	22.333	2.792		
27	35315 208	3.000	1.333	1.333	1.333	1.000	1.000	1.333	1.000	11.333	1.417		
28	35316 209	1.333	.667	.667	.667	1.333	1.000	.333	1.000	7.000	.875		
29	35317 210	1.667	1.333	2.000	.667	.667	.667	3.000	2.000	12.000	1.500		
30	35318 211	.333	1.000	1.333	1.667	1.667	1.333	1.667	2.667	11.667	1.458		
31	35319 212	2.667	1.333	2.333	.667	1.667	1.667	.333	1.000	11.667	1.458		

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP				AP				AP				AP				MAGNETIC CHARACTER											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18	19	20	21	22	23	24	25	26	27
1	35289	182	5	5	9	5	4	3	2	3	2	3	3	4	500	1														
2	35290	183	5	7	5	6	12	32	56	32	19	375	1	0																
3	35291	184	15	22	9	12	5	6	5	5	9	875	6																	
4	35292	185	4	4	6	2	3	2	3	2	3	250	0																	
5	35293	186	4	3	3	2	3	4	4	5	3	500	1																	
6	35294	187	3	4	3	2	3	7	7	18	5	875	5																	
7	35295	188	16	18	9	6	9	7	5	6	9	750	7																	
8	35296	189	4	6	7	18	9	22	12	6	10	500	8																	
9	35297	190	6	5	4	9	7	2	3	7	5	375	3																	
10	35298	191	5	6	7	15	27	15	9	9	11	625	7																	
11	35299	192	15	7	18	39	22	18	12	15	18	250	9																	
12	35300	193	56	6	15	22	15	9	12	27	20	250	1	2																
13	35301	194	18	7	3	3	12	12	4	5	8	000	4																	
14	35302	195	5	5	7	7	7	5	5	2	5	375	3																	
15	35303	196	4	3	3	6	32	39	15	12	14	250	8																	
16	35304	197	18	7	5	7	9	5	9	9	8	625	5																	
17	35305	198	5	15	12	5	3	2	5	7	6	750	3																	
18	35306	199	5	18	15	6	6	1	4	2	7	375	2																	
19	35307	200	4	3	3	5	4	3	0	3	3	125	1																	
20	35308	201	5	3	2	4	5	4	6	3	4	000	1																	
21	35309	202	5	3	0	3	2	3	4	9	3	625	3																	
22	35310	203	4	4	3	4	3	4	2	9	4	125	2																	
23	35311	204	12	5	6	4	4	4	7	12	6	750	4																	
24	35312	205	12	15	9	9	5	4	5	3	8	000	6																	
25	35313	206	7	6	7	5	5	4	4	5	5	375	2																	
26	35314	207	7	7	9	18	22	12	12	22	13	625	9																	
27	35315	208	15	5	5	5	4	4	5	4	5	875	3																	
28	35316	209	5	3	3	3	5	4	2	4	3	625	1																	
29	35317	210	6	5	7	3	3	3	15	7	6	125	5																	
30	35318	211	2	4	5	6	6	5	6	12	5	750	3																	
31	35319	212	12	5	9	3	6	6	2	4	5	875	3																	

JULY 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	I---SOLAR FLUX(10.7CM OTTAWA)-----I---RELATIVE ZURICH SUNSPOT NUMBER--I	I---RUNNING MEANS-----I	I---RUNNING MEANS-----I	DAILY 27-DAY	54-DAY	81-DAY	81-DAY--I			
1	35289 182	1	87.0	89.6	85.6	82.9	1	35	33.3	30.6	24.8
2	35290 183	1	88.0	90.0	85.8	83.1	1	38	33.8	31.3	25.3
3	35291 184	1	92.0	90.6	86.1	83.3	1	38	34.0	32.0	25.8
4	35292 185	1	90.0	91.1	86.4	83.5	1	43	34.7	32.6	26.3
5	35293 186	1	94.0	91.7	86.7	83.7	1	48	35.6	33.4	26.8
6	35294 187	1	101.0	92.3	87.2	84.0	1	60	36.9	34.5	27.4
7	35295 188	1	102.0	92.9	87.8	84.3	1	47	37.7	35.4	27.9
8	35296 189	1	102.0	93.3	88.3	84.7	1	47	37.6	36.1	28.4
9	35297 190	1	101.0	93.5	88.8	85.0	1	39	37.3	36.6	28.9
10	35298 191	1	101.0	93.7	89.2	85.3	1	41	37.4	36.8	29.4
11	35299 192	1	96.0	93.4	89.6	85.6	1	35	36.6	36.8	29.8
12	35300 193	1	97.0	93.3	90.0	85.8	1	35	35.9	36.9	30.2
13	35301 194	1	93.0	92.7	90.1	86.1	1	35	34.9	36.7	30.6
14	35302 195	1	90.0	92.1	90.0	86.2	1	37	33.9	36.4	31.0
15	35303 196	1	88.0	91.5	90.0	86.4	1	29	32.7	35.9	31.3
16	35304 197	1	85.0	90.8	89.9	86.6	1	22	31.2	35.4	31.6
17	35305 198	1	83.0	89.9	89.7	86.6	1	20	29.6	34.9	31.7
18	35306 199	1	81.0	89.1	89.5	86.6	1	7	27.8	34.2	31.6
19	35307 200	1	82.0	88.9	89.4	86.6	1	26	27.4	33.8	31.6
20	35308 201	1	81.0	88.4	89.2	86.7	1	32	28.0	33.6	31.6
21	35309 202	1	78.0	88.3	89.0	86.6	1	11	28.4	33.0	31.5
22	35310 203	1	77.0	88.3	88.8	86.6	1	9	28.7	32.3	31.3
23	35311 204	1	75.0	88.1	88.7	86.5	1	0	28.7	31.6	30.9
24	35312 205	1	73.0	88.0	88.6	86.4	1	0	28.7	31.2	30.4
25	35313 206	1	73.0	87.9	88.5	86.3	1	8	28.7	30.9	29.9
26	35314 207	1	74.0	87.6	88.4	86.2	1	0	28.3	30.4	29.6
27	35315 208	1	75.0	87.4	88.3	86.1	1	11	27.9	30.4	29.5
28	35316 209	1	75.0	86.9	88.3	86.0	1	12	27.0	30.2	29.4
29	35317 210	1	79.0	86.6	88.3	86.1	1	16	26.2	30.0	29.6
30	35318 211	1	81.0	86.2	88.4	86.1	1	20	25.6	29.8	29.9
31	35319 212	1	82.0	85.9	88.5	86.2	1	26	24.9	29.8	30.1

MONTHLY AVERAGE 86.3  
MONTHLY SMOOTHED 96.9

26.7  
40.0

AUGUST 1955

GEOMAGNETIC PLANETARY INDICES

DAY MOD. DAY OF JULIAN OF			KP										AVG.
MONTH	DAY	YEAR	1	2	3	4	5	6	7	8	SUM KP	KP	
1	35320	213	1.333	.667	.667	1.000	2.000	1.333	1.000	.667	8.667	1.083	
2	35321	214	2.333	1.333	.333	.000	.333	.333	1.000	2.667	8.333	1.042	
3	35322	215	4.000	2.333	2.333	1.667	1.667	2.667	1.667	2.667	19.000	2.375	
4	35323	216	2.667	.000	3.000	5.333	5.000	4.333	4.000	4.000	32.333	4.042	
5	35324	217	2.000	2.000	4.000	3.333	3.000	3.333	4.333	4.000	26.000	3.250	
6	35325	218	3.333	3.333	5.333	5.333	3.667	4.667	3.000	5.000	33.667	4.208	
7	35326	219	3.000	3.000	3.667	3.667	3.333	2.000	4.000	2.667	25.333	3.167	
8	35327	220	2.333	1.000	1.667	3.000	3.000	2.000	2.000	1.667	16.667	2.083	
9	35328	221	2.333	1.333	2.000	1.667	2.000	1.000	2.000	1.333	13.667	1.708	
10	35329	222	1.000	2.333	1.333	1.667	1.667	1.333	1.000	1.667	12.000	1.500	
11	35330	223	1.333	1.333	.667	.667	.333	.333	1.333	1.667	7.667	.958	
12	35331	224	2.000	1.000	1.667	1.667	1.000	.333	1.000	.667	9.333	1.167	
13	35332	225	1.333	2.000	1.333	2.667	1.333	1.000	1.000	2.667	13.333	1.667	
14	35333	226	3.000	1.667	1.333	2.667	1.333	2.667	3.333	3.000	19.000	2.375	
15	35334	227	3.333	3.333	2.333	2.000	2.667	1.000	.333	.667	15.667	1.958	
16	35335	228	.000	2.333	3.000	.333	1.000	.333	1.000	1.333	9.333	1.167	
17	35336	229	1.333	.333	.667	1.333	1.667	2.333	2.000	2.333	12.000	1.500	
18	35337	230	1.333	2.333	2.333	2.333	1.667	1.333	2.000	2.000	15.333	1.917	
19	35338	231	1.333	2.333	2.333	1.333	1.333	1.333	1.667	2.000	13.667	1.708	
20	35339	232	1.333	.667	1.000	2.000	1.333	1.667	1.000	.667	9.667	1.208	
21	35340	233	2.333	2.000	2.000	.333	.667	.333	1.000	1.000	9.667	1.208	
22	35341	234	.000	.333	.333	.000	.333	.333	1.000	1.000	3.333	.417	
23	35342	235	.333	.333	1.333	.333	.667	.667	.333	1.000	5.000	.625	
24	35343	236	.333	1.000	1.333	2.667	2.000	1.000	.667	1.000	10.000	1.250	
25	35344	237	1.000	.333	1.000	1.333	1.667	1.333	1.333	1.000	9.000	1.125	
26	35345	238	1.333	1.333	1.000	2.333	2.333	1.333	1.333	1.667	12.667	1.583	
27	35346	239	.333	.667	1.000	.667	.667	1.667	2.000	2.667	9.667	1.208	
28	35347	240	.667	3.667	6.000	3.667	2.667	1.667	1.667	1.333	21.333	2.667	
29	35348	241	3.000	2.000	2.333	2.000	2.000	1.333	3.000	3.333	19.000	2.375	
30	35349	242	1.667	1.333	1.000	2.000	.667	1.667	1.333	1.333	11.000	1.375	
31	35350	243	1.667	1.667	1.000	2.000	1.333	1.000	1.333	2.333	12.333	1.542	



## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY												MAGNETIC CHARACTER
		AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	
1	35320	213	5	3	3	3	4	4	7	5	4	3	4.250	.2
2	35321	214	9	5	2	0	2	4	2	2	4	12	4.500	.3
3	35322	215	27	9	6	6	6	12	6	12	10.875	.8		
4	35323	216	12	27	15	56	48	32	27	27	30.500	1.3		
5	35324	217	7	7	27	18	15	18	32	27	18.875	1.0		
6	35325	218	18	18	56	22	39	15	48	34.000	1.4			
7	35326	219	15	15	22	22	18	7	27	12	17.250	1.1		
8	35327	220	9	4	6	15	15	7	6	8.625	.5			
9	35328	221	9	5	7	6	7	4	7	5	6.250	.3		
10	35329	222	4	9	5	6	6	5	4	6	5.625	.2		
11	35330	223	5	5	3	3	2	2	5	6	3.875	.1		
12	35331	224	7	4	6	6	4	2	4	3	4.500	.1		
13	35332	225	5	7	5	12	5	4	12	6.750	.3			
14	35333	226	15	6	5	12	5	12	18	15	11.000	.8		
15	35334	227	18	18	9	7	12	4	2	3	9.125	.6		
16	35335	228	0	9	15	2	4	2	4	5	5.125	.2		
17	35336	229	5	2	3	6	6	9	7	9	5.750	.3		
18	35337	230	5	9	9	9	6	5	7	7	7.125	.3		
19	35338	231	5	9	9	5	5	5	6	7	6.375	.4		
20	35339	232	5	3	4	7	5	6	4	3	4.625	.2		
21	35340	233	9	7	7	2	3	2	4	4	4.750	.2		
22	35341	234	0	2	2	0	2	2	2	4	2.000	.0		
23	35342	235	2	2	5	2	3	3	2	4	2.875	.0		
24	35343	236	2	4	5	12	7	4	3	4	5.125	.3		
25	35344	237	4	2	4	6	5	5	5	4	4.375	.2		
26	35345	238	5	5	4	9	9	5	5	6	6.000	.2		
27	35346	239	2	3	4	3	3	6	7	12	5.000	.3		
28	35347	240	3	22	80	22	12	6	6	5	19.500	1.0		
29	35348	241	15	7	9	7	7	5	15	18	10.375	.7		
30	35349	242	6	5	4	7	3	6	5	5	5.125	.1		
31	35350	243	6	6	4	7	5	4	5	9	5.750	.3		

AUGUST 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1--SOLAR FLUX(10.7CM OTTAWA)	1--RELATIVE ZURICH SUNSPOT NUMBER	1-- RUNNING MEANS	1-- RELATIVE ZURICH SUNSPOT NUMBER	1-- RUNNING MEANS
			DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY
1	35320	213	83.0	86.3	25	24.1	29.8
2	35321	214	84.7	86.5	20	22.6	29.8
3	35322	215	84.0	86.5	16	21.4	29.6
4	35323	216	85.0	86.7	0	19.7	28.7
5	35324	217	85.0	86.9	26	19.2	28.3
6	35325	218	86.0	87.1	46	19.4	28.4
7	35326	219	83.0	87.4	61	20.4	28.5
8	35327	220	83.5	87.8	77	21.9	28.9
9	35328	221	84.7	88.3	83	23.7	29.3
10	35329	222	85.7	88.6	87	25.6	29.7
11	35330	223	86.6	88.8	85	27.6	30.1
12	35331	224	87.5	89.1	77	29.7	30.4
13	35332	225	88.3	89.2	77	31.8	30.7
14	35333	226	89.0	89.4	60	33.7	30.8
15	35334	227	89.5	89.4	44	34.4	30.9
16	35335	228	89.9	89.4	28	34.3	31.1
17	35336	229	90.1	89.4	16	34.4	31.4
18	35337	230	90.2	89.3	15	34.7	31.7
19	35338	231	90.3	89.2	13	35.1	31.9
20	35339	232	90.5	89.2	17	35.8	32.3
21	35340	233	90.6	89.2	22	36.3	32.5
22	35341	234	90.7	89.2	23	37.1	32.7
23	35342	235	90.8	89.1	23	37.6	32.7
24	35343	236	90.8	89.1	14	37.7	32.4
25	35344	237	90.6	89.1	11	37.5	31.9
26	35345	238	90.6	89.1	26	37.7	31.6
27	35346	239	90.6	89.2	44	38.4	31.6
28	35347	240	90.6	89.3	56	39.5	31.8
29	35348	241	90.8	89.8	57	40.9	31.7
30	35349	242	91.0	89.3	52	42.2	31.8
31	35350	243	91.6	89.4	62	44.5	32.1

MONTHLY AVERAGE 90.5  
MONTHLY SMOOTHED 102.8

40.7  
46.5

SEPTEMBER 1955

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP R	SUM KP	AVG, KP
1	35351 244	1.333	1.000	3.333	2.667	2.667	2.667	3.000	2.000	18.667	2.333
2	35352 245	4.000	4.000	2.667	4.333	3.333	2.667	1.333	1.667	24.000	3.000
3	35353 246	3.333	3.000	3.333	5.000	3.333	1.333	2.000	2.333	23.667	2.958
4	35354 247	4.333	3.667	2.667	4.333	2.667	3.333	1.667	3.667	26.333	3.292
5	35355 248	4.333	4.667	4.000	4.000	3.333	2.667	2.667	2.000	27.667	3.458
6	35356 249	2.000	3.333	3.333	3.333	1.333	2.333	2.333	3.000	21.000	2.625
7	35357 250	3.000	1.333	3.333	3.000	1.000	1.333	1.000	.667	14.667	1.833
8	35358 251	1.000	1.667	2.000	2.333	2.000	2.667	1.000	2.333	15.000	1.875
9	35359 252	3.000	2.667	1.000	1.333	1.333	1.333	.667	1.667	13.000	1.625
10	35360 253	1.333	1.333	2.667	2.333	1.333	1.333	1.333	.667	12.333	1.542
11	35361 254	2.000	1.333	1.333	1.000	1.333	1.000	1.000	2.333	11.333	1.417
12	35362 255	2.667	3.667	4.667	3.000	3.000	2.333	1.667	3.333	24.333	3.042
13	35363 256	4.333	4.333	4.333	4.333	3.000	3.667	1.667	.667	26.333	3.292
14	35364 257	.333	1.667	2.667	2.667	1.667	1.333	.667	1.333	12.333	1.542
15	35365 258	2.333	2.000	1.000	1.000	1.000	1.333	2.000	1.333	12.000	1.500
16	35366 259	3.333	3.000	2.667	2.667	2.333	1.333	.667	2.000	18.000	2.250
17	35367 260	2.667	4.000	4.333	3.000	2.000	1.667	1.667	1.667	21.000	2.625
18	35368 261	2.000	2.667	2.667	3.000	2.000	2.333	1.333	.667	16.667	2.083
19	35369 262	3.000	2.667	2.000	2.333	2.333	1.333	.667	2.000	16.333	2.042
20	35370 263	3.000	2.333	3.333	3.000	.333	1.000	1.333	1.333	15.667	1.958
21	35371 264	1.333	1.333	1.333	1.667	.333	.333	1.000	1.667	9.000	1.125
22	35372 265	3.667	2.667	1.000	1.000	1.333	.667	2.000	1.667	14.000	1.750
23	35373 266	1.000	2.000	3.667	3.667	2.000	1.667	3.000	3.333	20.333	2.542
24	35374 267	3.667	1.667	1.000	1.333	1.000	2.000	2.333	.333	13.333	1.667
25	35375 268	1.667	.667	1.000	.333	.333	.667	.333	1.333	6.333	.792
26	35376 269	1.000	.667	.000	.333	.667	.333	.667	1.000	4.667	.583
27	35377 270	2.667	3.000	3.000	3.667	3.333	4.000	4.333	3.667	27.667	3.458
28	35378 271	2.333	4.333	4.000	3.333	2.333	1.667	3.667	2.000	23.667	2.958
29	35379 272	3.333	2.000	2.333	2.667	2.000	5.000	4.667	3.667	25.667	3.208
30	35380 273	4.333	6.333	6.667	3.667	3.667	4.000	3.333	4.333	39.667	4.958

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	MAGNETIC CHARACTER											
			AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AP 9	AP 10	AP 11	AP 12
1	35351	244	5	4	18	12	12	12	15	7	10.625	.8		
2	35352	245	27	27	12	32	18	12	5	6	17.375	.8		
3	35353	246	18	15	18	48	18	5	7	9	17.250	1.0		
4	35354	247	32	22	12	32	12	18	6	22	19.500	1.1		
5	35355	248	32	39	27	27	16	12	12	7	21.750	1.1		
6	35356	249	7	18	18	18	5	9	9	15	12.375	.6		
7	35357	250	15	5	18	15	4	5	4	3	8.625	.2		
8	35358	251	4	6	7	9	7	12	4	9	7.250	.5		
9	35359	252	15	12	4	5	5	5	3	6	6.875	.3		
10	35360	253	5	5	12	9	5	5	5	3	6.125	.2		
11	35361	254	7	5	5	4	4	4	4	9	5.375	.2		
12	35362	255	12	22	39	15	15	9	6	18	17.000	1.0		
13	35363	256	32	32	32	32	15	22	6	3	21.750	1.1		
14	35364	257	2	6	12	12	6	5	3	5	6.375	.3		
15	35365	258	9	7	4	4	4	5	7	5	5.625	.2		
16	35366	259	18	15	12	12	9	5	3	7	10.125	.5		
17	35367	260	12	27	32	15	7	6	6	6	13.875	.7		
18	35368	261	7	12	12	15	7	9	5	3	8.750	.4		
19	35369	262	15	12	7	9	9	5	3	7	8.375	.4		
20	35370	263	15	9	18	15	2	4	5	5	9.125	.5		
21	35371	264	5	5	5	6	2	2	4	6	4.375	.1		
22	35372	265	22	12	4	4	4	3	7	6	7.875	.6		
23	35373	266	4	7	22	22	7	6	15	18	12.625	.8		
24	35374	267	22	6	4	5	4	7	9	2	7.375	.4		
25	35375	268	6	3	4	2	2	3	2	5	3.375	.1		
26	35376	269	4	3	0	2	3	2	3	4	2.625	.0		
27	35377	270	12	15	15	22	18	27	32	22	20.375	1.3		
28	35378	271	9	32	27	18	9	6	22	7	16.250	.9		
29	35379	272	18	7	9	12	7	48	39	22	20.250	1.3		
30	35380	273	32	94	111	67	48	27	19	32	53.625	1.5		



# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF		KP	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP
	DAY	YEAR											
1	35381	274	3.000	2.333	2.333	4.333	2.333	1.333	2.667	2.000	20.667	2.583	
2	35382	275	3.000	2.000	3.000	2.667	3.333	4.333	3.333	1.667	23.333	2.917	
3	35383	276	3.000	4.000	3.667	3.333	2.333	3.333	1.667	.667	22.000	2.750	
4	35384	277	1.667	3.333	3.000	3.667	1.000	.667	1.000	1.667	16.000	2.000	
5	35385	278	2.333	2.333	1.667	3.000	3.333	3.333	5.667	4.667	26.333	3.292	
6	35386	279	4.333	4.000	4.333	3.667	3.000	4.000	1.667	1.000	26.000	3.250	
7	35387	280	1.333	1.333	1.667	2.000	2.000	1.333	.667	3.667	14.000	1.750	
8	35388	281	3.000	3.000	3.333	2.000	1.333	2.000	2.333	2.333	19.333	2.417	
9	35389	282	1.000	1.333	1.000	.667	.333	2.000	1.000	3.333	10.667	1.333	
10	35390	283	3.000	2.667	3.667	3.667	3.333	3.000	2.667	.667	22.667	2.833	
11	35391	284	.333	2.333	4.000	2.667	3.667	2.333	1.667	.000	17.000	2.125	
12	35392	285	.000	.000	.333	.000	.000	.000	.000	.333	.667	.083	
13	35393	286	.333	.000	1.000	1.000	.333	.333	1.000	1.333	5.333	.667	
14	35394	287	1.333	1.333	1.667	1.667	1.333	1.000	1.000	.667	10.000	1.250	
15	35395	288	.333	1.667	.333	.667	.333	.000	.333	2.000	5.667	.708	
16	35396	289	3.333	1.333	1.667	.667	1.333	1.000	.333	1.000	10.667	1.333	
17	35397	290	1.333	1.667	1.000	.333	.000	.000	1.667	1.333	7.333	.917	
18	35398	291	1.000	.000	.000	.667	.000	.000	.000	.333	2.000	.250	
19	35399	292	.000	.667	.667	.333	1.000	1.333	.667	1.000	6.000	.750	
20	35400	293	2.000	1.333	2.333	2.333	2.000	2.000	1.333	.667	14.000	1.750	
21	35401	294	.000	.333	1.667	1.333	.667	.667	1.333	2.000	8.000	1.000	
22	35402	295	.333	.333	1.333	2.000	2.667	2.000	2.333	1.000	12.000	1.500	
23	35403	296	2.000	1.333	1.000	1.667	2.000	1.333	1.333	.333	11.000	1.375	
24	35404	297	.000	.000	1.000	.667	.667	.000	.667	1.000	4.000	.500	
25	35405	298	4.667	4.000	5.667	6.000	6.000	5.667	5.333	4.333	41.667	5.208	
26	35406	299	5.333	5.000	4.333	4.333	3.667	4.333	5.667	3.333	36.000	4.500	
27	35407	300	2.333	3.000	3.000	2.333	2.000	2.667	2.333	2.667	20.333	2.542	
28	35408	301	.667	2.333	2.000	2.000	2.667	2.667	.333	1.333	14.000	1.750	
29	35409	302	.667	2.333	2.333	2.000	1.000	3.333	2.333	2.667	16.667	2.083	
30	35410	303	1.000	.667	1.000	1.333	2.333	3.333	3.333	2.000	15.000	1.875	
31	35411	304	2.667	3.333	3.333	2.333	3.333	3.667	5.333	5.333	29.333	3.667	

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES.

DAY OF MONTH		MOD. JULIAN DAY		AP								MAGNETIC CHARACTER	
DAY	MONTH	DAY	YEAR	1	2	3	4	5	6	7	8	AP	AVG
1	35381	274	18	9	9	9	32	9	5	12	7	12.625	.7
2	35382	275	15	7	15	12	18	32	18	6	6	15.375	1.0
3	35383	276	15	27	22	18	9	18	6	3	3	14.750	.8
4	35384	277	6	18	15	22	4	3	4	6	6	9.750	.4
5	35385	278	9	9	6	15	18	18	67	39	39	22.625	1.3
6	35386	279	32	27	32	22	15	27	6	4	4	20.625	.9
7	35387	280	5	5	6	7	7	5	3	22	22	7.500	.5
8	35388	281	15	15	13	7	5	7	9	9	9	10.625	.9
9	35389	282	4	5	4	3	2	7	4	18	18	5.875	.5
10	35390	283	15	12	22	22	18	15	12	3	3	14.875	.9
11	35391	284	2	9	27	12	22	9	6	0	0	10.875	.6
12	35392	285	0	0	2	0	0	0	0	2	2	.500	.0
13	35393	286	2	0	4	4	2	2	4	5	5	2.875	.1
14	35394	287	5	5	6	6	5	5	4	3	3	4.750	.1
15	35395	288	2	6	2	3	2	0	2	7	7	3.000	.1
16	35396	289	16	5	6	3	5	4	2	4	4	5.875	.3
17	35397	290	5	6	4	2	0	0	6	5	5	3.500	.1
18	35398	291	4	0	0	0	3	0	0	2	2	1.125	.0
19	35399	292	0	3	3	3	4	5	3	4	4	3.125	.1
20	35400	293	7	5	9	7	9	7	5	3	3	6.500	.4
21	35401	294	0	2	6	5	3	3	5	7	7	3.875	.3
22	35402	295	2	2	5	7	12	7	9	4	4	6.000	.5
23	35403	296	7	5	4	6	7	5	5	2	2	5.125	.3
24	35404	297	0	0	4	3	3	3	0	3	4	2.125	.0
25	35405	298	39	27	67	80	80	67	56	32	32	56.000	1.7
26	35406	299	56	48	32	32	22	32	67	18	18	38.375	1.5
27	35407	300	9	15	15	9	7	12	9	12	12	11.000	.8
28	35408	301	3	9	7	7	12	12	2	5	5	7.125	.5
29	35409	302	3	9	9	7	4	18	9	12	12	8.875	.6
30	35410	303	4	3	4	5	9	18	18	7	7	8.500	.7
31	35411	304	12	18	13	9	19	22	56	56	56	26.125	1.4

OCTOBER 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1-----SOLAR FLUX(10.7CM OTTAWA)-----1--RELATIVE ZURICH SUNSPOT NUMBER--1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	DAILY 27-DAY	DAILY 81-DAY	DAILY 27-DAY	54-DAY	54-DAY	81-DAY		
DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	1	1	1	1	1	1		
1	35381	274	1	97.0	73.3	92.9	89.8	1	37	36.1	42.8	35.8
2	35382	275	1	101.0	93.0	92.5	89.9	1	54	35.3	42.2	36.1
3	35383	276	1	113.0	93.2	92.4	90.2	1	58	34.8	41.7	36.3
4	35384	277	1	118.0	93.6	92.5	90.5	1	64	34.4	41.3	36.8
5	35385	278	1	120.0	94.0	92.7	91.0	1	62	34.2	41.0	37.2
6	35386	279	1	123.0	94.4	93.0	91.5	1	60	34.1	40.7	37.7
7	35387	280	1	125.0	95.1	93.5	92.0	1	71	34.8	40.9	38.5
8	35388	281	1	113.0	95.7	93.8	92.4	1	71	35.9	41.4	39.1
9	35389	282	1	115.0	96.4	94.3	92.8	1	79	37.4	42.4	39.7
10	35390	283	1	120.0	97.2	94.9	93.3	1	56	38.0	43.1	40.2
11	35391	284	1	114.0	98.0	95.6	93.8	1	55	38.8	43.9	40.8
12	35392	285	1	107.0	98.7	96.1	94.2	1	61	39.3	44.7	41.5
13	35393	286	1	99.0	99.2	96.5	94.5	1	41	39.9	45.2	42.0
14	35394	287	1	95.0	99.6	96.9	94.8	1	22	39.3	45.2	42.2
15	35395	288	1	86.0	99.7	97.0	94.9	1	7	38.1	44.9	42.3
16	35396	289	1	86.0	99.8	97.2	95.1	1	0	37.0	44.5	42.2
17	35397	290	1	79.0	99.6	97.3	95.1	1	0	36.1	44.2	42.0
18	35398	291	1	85.0	99.8	97.5	95.2	1	0	35.9	44.0	41.8
19	35399	292	1	87.0	100.0	97.6	95.3	1	11	36.3	43.7	41.7
20	35400	293	1	88.0	100.3	97.7	95.3	1	21	36.8	43.3	41.7
21	35401	294	1	94.0	100.7	97.9	95.5	1	23	36.7	42.7	41.6
22	35402	295	1	96.0	101.0	98.1	95.7	1	42	37.2	42.4	41.9
23	35403	296	1	105.0	101.7	98.4	95.9	1	57	38.9	42.5	42.4
24	35404	297	1	113.0	102.5	98.6	96.3	1	86	41.3	42.9	43.5
25	35405	298	1	134.0	104.0	99.2	96.8	1	95	43.9	43.1	44.3
26	35406	299	1	139.0	105.6	99.9	97.4	1	107	47.1	43.4	45.1
27	35407	300	1	139.0	107.1	100.4	97.6	1	98	49.6	43.7	45.5
28	35408	301	1	141.0	108.7	101.0	98.2	1	108	52.2	44.2	45.9
29	35409	302	1	145.0	110.4	101.7	98.4	1	119	54.6	44.9	46.4
30	35410	303	1	141.0	111.4	102.3	96.7	1	124	57.0	45.9	46.8
31	35411	304	1	150.0	112.6	103.1	99.2	1	123	59.2	46.0	47.3

MONTHLY AVERAGE 111.9  
MONTHLY SMOOTHED 117.1

59.5  
64.4



NOVEMBER 1955

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	KP	3	KP	4	KP	5	KP	6	KP	7	KP	8	SU4 KP	AVG. KP
1	35412 305	3.000	4.667	3.000	1.667	.333	2.000	3.667	2.000	20.333	2.542							
2	35413 306	2.000	2.000	2.667	3.333	2.333	2.667	2.667	1.667	18.667	2.333							
3	35414 307	1.000	.667	1.333	1.333	1.000	1.000	1.000	1.000	8.333	1.042							
4	35415 308	3.667	5.000	5.000	4.000	1.667	1.333	3.000	3.667	27.333	3.417							
5	35416 309	3.333	3.333	3.333	2.667	2.000	.667	.667	1.000	17.000	2.125							
6	35417 310	1.667	.333	.667	.667	.000	.000	1.667	1.000	6.000	.750							
7	35418 311	1.333	.333	1.000	1.000	.333	.667	.667	.000	5.333	.667							
8	35419 312	1.333	2.333	2.000	2.333	3.667	3.000	3.000	4.333	21.000	2.625							
9	35420 313	4.000	3.000	2.667	2.333	1.333	1.000	.667	.667	15.667	1.958							
10	35421 314	1.000	.667	1.000	1.333	1.000	1.333	2.333	1.333	10.000	1.250							
11	35422 315	2.333	1.000	1.333	1.333	.667	2.333	1.333	2.000	12.333	1.542							
12	35423 316	1.000	.667	4.667	4.333	3.000	4.000	3.667	1.000	22.333	2.792							
13	35424 317	1.000	3.000	1.667	1.667	1.000	1.667	1.333	1.000	12.333	1.542							
14	35425 318	.667	.333	.667	1.000	1.333	2.000	2.333	1.667	10.000	1.250							
15	35426 319	2.000	2.333	3.667	4.667	3.667	3.333	3.667	3.333	26.667	3.333							
16	35427 320	4.667	4.667	4.000	3.000	3.333	3.333	3.000	3.667	29.667	3.708							
17	35428 321	2.667	5.000	1.333	1.667	1.233	1.333	1.000	1.667	16.000	2.000							
18	35429 322	1.667	4.333	4.000	2.667	2.667	5.667	5.667	3.000	29.667	3.708							
19	35430 323	3.000	2.000	3.000	5.333	7.667	7.000	5.667	5.000	38.667	4.833							
20	35431 324	5.667	4.333	5.000	4.000	5.000	6.000	4.667	4.333	39.000	4.875							
21	35432 325	4.000	3.000	2.333	1.667	.667	.000	.667	.000	12.333	1.542							
22	35433 326	.000	.000	1.667	2.000	1.667	.667	.333	.000	6.333	.792							
23	35434 327	.000	1.333	1.000	2.000	1.000	.333	1.000	2.000	8.667	1.083							
24	35435 328	1.333	1.000	3.000	2.333	2.333	1.667	1.333	2.000	15.000	1.875							
25	35436 329	3.667	2.000	2.667	2.000	2.667	3.000	.667	1.000	17.667	2.208							
26	35437 330	2.000	1.667	1.667	1.667	.667	.333	.333	2.000	10.333	1.292							
27	35438 331	2.667	.000	1.000	2.000	2.000	1.333	.667	1.667	11.333	1.417							
28	35439 332	.667	.333	.667	3.000	1.667	1.667	1.333	4.667	14.000	1.750							
29	35440 333	1.667	2.333	1.667	2.000	.667	1.333	2.333	1.333	13.333	1.667							
30	35441 334	.333	2.667	1.000	1.000	1.667	1.000	1.667	.667	10.000	1.250							



NOVEMBER 1955

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1			
DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	35412 305	1 154.0	113.9	103.9	99.8	102	60.7	47.5	47.6
2	35413 306	1 136.0	114.3	104.4	100.1	92	61.9	48.0	47.8
3	35414 307	1 122.0	114.2	104.7	100.4	77	62.1	48.4	48.0
4	35415 308	1 117.0	114.4	105.0	100.7	52	61.4	48.7	48.1
5	35416 309	1 110.0	114.2	105.3	100.9	50	60.3	48.7	48.4
6	35417 310	1 108.0	113.7	105.5	101.2	36	59.6	48.8	48.6
7	35418 311	1 117.0	113.9	105.9	101.7	71	60.2	49.5	49.3
8	35419 312	1 122.0	114.4	106.5	102.2	84	61.0	50.2	50.2
9	35420 313	1 126.0	115.4	107.3	102.8	115	63.8	51.9	51.4
10	35421 314	1 131.0	116.7	108.2	103.5	131	67.8	53.6	52.7
11	35422 315	1 135.0	118.5	109.1	104.2	150	73.1	55.6	54.3
12	35423 316	1 141.0	120.6	110.2	105.0	152	78.7	57.9	55.9
13	35424 317	1 132.0	122.5	111.1	105.7	140	83.9	60.0	57.4
14	35425 318	1 128.0	124.1	111.9	106.3	130	88.7	62.3	58.9
15	35426 319	1 133.0	125.8	112.9	107.0	122	92.9	64.6	60.1
16	35427 320	1 135.0	127.6	113.9	107.7	105	96.0	66.4	60.9
17	35428 321	1 132.0	129.0	114.8	108.2	90	98.4	67.6	61.3
18	35429 322	1 129.0	130.2	115.6	108.8	75	99.7	68.4	61.5
19	35430 323	1 132.0	131.2	116.4	109.3	55	99.6	69.2	61.5
20	35431 324	1 133.0	131.9	117.2	109.7	60	98.6	70.0	61.5
21	35432 325	1 125.0	131.6	117.8	110.0	60	97.3	70.6	61.1
22	35433 326	1 123.0	131.0	118.3	110.2	61	95.6	71.4	60.8
23	35434 327	1 124.0	130.4	118.8	110.4	63	94.3	71.9	60.6
24	35435 328	1 125.0	129.9	119.3	110.6	70	92.9	72.6	60.4
25	35436 329	1 124.0	129.3	119.8	110.9	77	91.4	73.0	60.4
26	35437 330	1 136.0	129.1	120.2	111.2	81	89.8	73.4	60.5
27	35438 331	1 137.0	128.6	120.6	111.6	90	88.6	73.9	60.7
28	35439 332	1 136.0	127.9	120.9	111.9	97	88.4	74.5	61.1
29	35440 333	1 133.0	127.8	121.1	112.2	95	88.5	75.2	61.5
30	35441 334	1 145.0	128.7	121.4	112.7	93	89.1	75.6	62.0

MONTHLY AVERAGE 129.5  
MONTHLY SMOOTHED 124.1

89.2  
73.0

DECEMBER 1955

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35442 335	2.333	1.000	1.333	3.333	3.333	4.000	3.667	5.333	4.667	25.667	3.208
2	35443 336	3.667	4.333	3.667	2.667	2.667	1.667	.667	.667	.667	18.000	2.250
3	35444 337	.333	.000	1.000	2.333	2.667	3.000	3.000	3.000	3.000	15.333	1.917
4	35445 338	2.667	2.000	1.667	1.333	1.333	.333	.000	.333	1.000	9.333	1.167
5	35446 339	1.667	1.000	.333	.333	.333	1.667	1.333	1.667	4.000	12.000	1.500
6	35447 340	2.667	3.667	4.333	4.333	2.333	1.667	.667	3.000	4.000	22.333	2.792
7	35448 341	3.333	4.333	1.667	1.333	1.333	.333	.000	.000	.667	11.667	1.458
8	35449 342	1.000	2.000	2.333	.667	.667	1.667	2.333	3.667	3.000	16.667	2.083
9	35450 343	3.333	2.000	2.667	2.667	2.667	3.667	2.667	1.667	1.333	20.000	2.500
10	35451 344	1.333	1.000	.667	1.333	1.333	2.667	2.000	2.333	.667	12.000	1.500
11	35452 345	1.000	1.000	.333	1.333	1.333	1.667	1.667	1.000	1.333	9.000	1.125
12	35453 346	1.333	1.333	.667	.667	.667	.667	1.333	1.667	1.333	9.000	1.125
13	35454 347	.333	.000	.000	.667	.667	.667	1.667	1.000	.333	4.667	.583
14	35455 348	.333	.000	1.333	1.000	.333	.333	.000	.000	.333	3.333	.417
15	35456 349	1.000	.667	.667	.667	.667	.333	1.000	1.667	2.333	8.333	1.042
16	35457 350	1.667	2.333	3.000	3.000	2.333	2.333	2.333	1.667	1.333	17.667	2.208
17	35458 351	.333	1.000	.667	1.667	.333	.333	1.333	1.667	1.000	8.000	1.000
18	35459 352	1.000	.333	1.000	.667	.667	.333	.667	.333	.000	4.333	.542
19	35460 353	.000	.000	1.667	2.000	2.000	2.000	2.667	2.333	2.000	12.667	1.583
20	35461 354	2.333	3.333	3.000	1.333	2.667	2.667	2.333	1.000	1.000	17.000	2.125
21	35462 355	1.333	2.333	1.667	2.000	3.000	3.000	3.000	1.667	1.667	16.667	2.083
22	35463 356	1.000	2.333	2.333	.667	1.667	1.667	1.333	.667	.667	10.667	1.333
23	35464 357	1.000	1.000	.667	.333	.333	.667	.000	.333	.667	4.667	.583
24	35465 358	.333	.333	1.000	1.000	1.000	1.333	2.667	1.000	3.000	10.667	1.333
25	35466 359	3.667	4.667	3.333	3.333	2.000	4.000	3.333	3.333	1.667	26.000	3.250
26	35467 360	.333	1.333	1.667	3.333	3.333	3.333	3.667	3.667	5.000	22.333	2.792
27	35468 361	4.667	4.333	3.000	3.333	2.333	2.333	2.333	1.333	2.333	23.667	2.958
28	35469 362	.333	.667	1.667	1.667	1.333	2.333	2.333	2.333	.667	11.000	1.375
29	35470 363	.000	.000	.333	.667	.333	.333	.333	1.000	.333	2.667	.333
30	35471 364	1.000	.667	1.000	.667	.667	1.000	1.667	.333	1.000	7.333	.917
31	35472 365	1.333	2.667	2.667	2.000	1.333	2.667	2.667	2.667	2.000	17.333	2.167

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY			MOD.			DAY			MOD.			MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	9	10	11		
1	35442	335	9	4	5	18	27	22	56	39	22	500	1.3	
2	35443	336	22	12	22	12	6	3	3	3	12	875	.6	
3	35444	337	2	0	4	9	12	15	15	15	9	000	.8	
4	35445	338	12	7	6	5	2	0	2	4	4	750	.2	
5	35446	339	6	4	2	2	6	5	6	27	7	250	.8	
6	35447	340	12	22	32	9	6	3	15	27	15	750	1.0	
7	35448	341	18	32	6	5	2	0	0	3	8	250	.3	
8	35449	342	4	7	9	3	6	9	22	15	9	375	.5	
9	35450	343	18	7	12	12	22	12	6	5	11	750	.8	
10	35451	344	5	4	3	5	12	7	9	3	6	000	.4	
11	35452	345	4	4	2	5	5	6	4	5	4	375	.1	
12	35453	346	5	5	3	3	3	5	6	5	4	375	.1	
13	35454	347	2	0	0	3	3	6	4	2	2	500	.0	
14	35455	348	2	0	5	4	2	0	0	2	1	875	.0	
15	35456	349	4	3	3	3	2	4	6	9	4	250	.3	
16	35457	350	6	9	15	15	9	9	6	5	9	250	.6	
17	35458	351	2	4	3	6	2	5	6	4	4	000	.2	
18	35459	352	4	2	4	3	2	3	2	0	2	500	.0	
19	35460	353	0	0	6	7	7	12	9	7	6	000	.6	
20	35461	354	9	18	15	5	12	9	4	4	9	500	.5	
21	35462	355	5	9	6	7	15	15	6	6	9	625	.6	
22	35463	356	4	9	9	3	6	5	3	3	5	250	.2	
23	35464	357	4	4	3	2	3	0	2	3	2	625	.0	
24	35465	358	2	2	4	4	5	12	4	15	6	000	.5	
25	35466	359	22	39	18	7	27	18	16	6	19	375	1.2	
26	35467	360	2	5	6	18	18	22	22	48	17	625	1.2	
27	35468	361	39	32	15	18	9	9	5	9	17	000	.9	
28	35469	362	2	3	6	5	5	9	9	3	5	375	.4	
29	35470	363	0	0	2	3	0	2	4	2	1	625	.0	
30	35471	364	4	3	4	3	4	6	2	4	3	750	.1	
31	35472	365	5	12	12	7	5	12	12	7	9	000	.7	

DECEMBER 1955

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	113.2	1	99	90.8	76.1	62.7
			1-----RUNNING MEANS-----1	113.7	1	87	92.2	76.3	63.3
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	114.2	1	75	93.6	76.6	63.7
			1-----RUNNING MEANS-----1	114.8	1	86	94.2	77.2	64.4
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	115.6	1	100	94.8	77.9	65.0
			1-----RUNNING MEANS-----1	116.4	1	100	94.2	79.0	66.0
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	117.1	1	84	92.5	80.1	66.5
			1-----RUNNING MEANS-----1	117.9	1	72	89.6	81.4	66.9
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	118.5	1	65	86.4	82.6	67.4
			1-----RUNNING MEANS-----1	119.2	1	74	83.9	83.9	68.0
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	120.0	1	80	82.1	85.4	68.9
			1-----RUNNING MEANS-----1	120.8	1	79	80.5	86.7	69.9
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	121.5	1	71	79.2	87.6	70.7
			1-----RUNNING MEANS-----1	122.1	1	63	76.2	88.3	71.1
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	122.8	1	75	78.2	88.9	71.7
			1-----RUNNING MEANS-----1	123.4	1	68	78.7	89.1	72.4
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	124.0	1	70	79.1	88.9	73.0
			1-----RUNNING MEANS-----1	124.5	1	85	80.0	88.7	73.8
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	125.0	1	89	81.0	88.3	74.6
			1-----RUNNING MEANS-----1	125.4	1	92	82.1	88.2	75.3
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	125.7	1	105	83.4	88.2	76.2
			1-----RUNNING MEANS-----1	126.0	1	85	83.7	87.5	76.6
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	126.1	1	64	83.1	86.4	76.6
			1-----RUNNING MEANS-----1	126.0	1	51	81.6	85.1	76.5
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	126.0	1	53	80.0	84.2	76.4
			1-----RUNNING MEANS-----1	126.9	1	61	78.7	83.6	76.4
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	125.9	1	62	77.6	83.3	76.3
			1-----RUNNING MEANS-----1	126.0	1	65	76.3	83.6	76.2
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	126.2	1	72	75.8	84.0	76.1
			1-----RUNNING MEANS-----1	126.4	1	81	76.0	84.8	76.4
			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	126.6	1	70	75.4	84.8	76.6

MONTHLY AVERAGE 134.1  
MONTHLY SMOOTHED 130.3

76.9  
81.0

JANUARY 1956

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	1	2	3	4	5	6	7	8	SUR KP	AVG. KP	
1	35473	1	3.667	2.667	1.667	3.000	2.333	4.333	4.000	4.667	26.333	3.292
2	35474	2	3.333	3.333	2.000	2.000	2.333	3.333	3.667	3.667	23.667	2.958
3	35475	3	3.000	3.333	2.667	3.333	1.667	2.667	2.333	3.667	22.667	2.833
4	35476	4	2.667	3.333	2.667	2.333	2.333	2.333	5.000	3.667	24.333	3.042
5	35477	5	3.333	3.333	2.667	2.000	2.000	2.000	3.667	1.667	20.667	2.583
6	35478	6	4.000	1.333	1.333	2.000	4.000	4.000	3.333	2.667	22.667	2.833
7	35479	7	1.333	1.333	.000	1.667	2.333	4.000	2.667	3.000	16.333	2.042
8	35480	8	2.333	1.333	1.000	2.000	1.000	1.000	2.000	.667	11.333	1.417
9	35481	9	2.333	3.667	2.000	3.667	3.667	3.333	2.000	1.667	22.333	2.792
10	35482	10	.000	3.333	3.667	3.667	5.333	4.667	4.667	4.000	28.333	3.542
11	35483	11	6.000	4.333	4.667	6.000	4.000	3.333	5.333	2.000	35.667	4.458
12	35484	12	1.000	2.333	2.333	3.667	2.667	3.667	5.667	3.667	25.000	3.125
13	35485	13	4.000	3.000	2.000	.667	2.000	1.000	1.333	.333	14.333	1.792
14	35486	14	1.667	2.667	2.000	3.667	2.000	2.000	1.667	1.667	17.333	2.167
15	35487	15	.000	.333	1.000	1.667	1.667	1.000	.333	1.333	7.333	.917
16	35488	16	3.000	1.333	1.333	2.000	1.667	.667	1.667	1.000	12.667	1.583
17	35489	17	.667	1.667	2.000	1.667	2.333	.667	1.333	3.000	13.333	1.667
18	35490	18	5.000	5.333	4.333	4.000	4.000	4.000	4.667	5.667	37.000	4.625
19	35491	19	5.667	4.000	4.333	3.667	5.000	3.667	3.667	2.667	32.667	4.083
20	35492	20	2.000	1.667	2.000	1.667	1.000	.667	.667	1.000	10.667	1.333
21	35493	21	2.000	.000	.000	.667	.667	3.333	2.667	4.333	13.667	1.708
22	35494	22	5.667	5.667	4.333	3.667	1.667	1.000	4.000	1.333	27.333	3.417
23	35495	23	1.000	2.667	2.667	1.333	2.000	3.000	4.000	5.000	21.667	2.708
24	35496	24	3.000	5.000	3.667	4.667	4.667	4.000	5.667	5.000	35.667	4.458
25	35497	25	5.667	3.667	3.667	1.667	1.667	1.000	2.667	1.667	21.667	2.708
26	35498	26	.000	.667	1.000	.667	.667	.667	.667	1.333	5.667	.708
27	35499	27	1.667	1.333	2.333	4.000	4.333	4.667	6.000	3.333	27.667	3.458
28	35500	28	5.000	6.333	4.667	4.000	3.667	3.333	4.000	3.333	34.333	4.292
29	35501	29	2.667	2.667	2.667	3.000	4.333	3.667	3.667	2.333	25.000	3.125
30	35502	30	3.667	3.333	2.333	2.000	2.667	4.000	2.333	3.667	24.000	3.000
31	35503	31	3.000	3.333	2.667	3.667	3.333	3.333	2.667	3.667	25.667	3.206

GEOMAGNETIC PLANETARY INDICES

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PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH		MOD. DAY JULIAN OF YEAR		MAGNETIC CHARACTER								
		AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
1	35473	1	22	12	4	15	9	32	27	39	20.250	1.1
2	35474	2	18	16	7	7	9	18	22	22	15.125	.9
3	35475	3	15	18	12	18	6	12	9	22	14.000	.8
4	35476	4	12	16	12	9	9	9	48	22	17.375	1.2
5	35477	5	16	18	12	7	7	7	22	6	12.125	.9
6	35478	6	27	5	5	7	27	27	18	12	16.000	1.0
7	35479	7	5	5	0	6	9	27	12	15	9.875	1.0
8	35480	8	9	5	4	7	4	4	7	3	5.375	.2
9	35481	9	9	22	7	22	22	18	7	6	14.125	.9
10	35482	10	0	18	22	22	22	56	39	27	25.750	1.4
11	35483	11	80	32	39	80	27	10	56	7	42.375	1.6
12	35484	12	4	9	9	22	12	22	67	22	20.875	1.4
13	35485	13	27	15	7	3	7	4	5	2	8.750	.6
14	35486	14	6	12	7	22	7	7	6	6	9.125	.7
15	35487	15	0	2	4	6	6	4	2	5	3.625	.0
16	35488	16	15	5	5	7	6	3	6	4	6.375	.2
17	35489	17	3	6	7	6	9	3	5	15	6.750	.3
18	35490	18	45	56	32	27	27	27	39	67	40.375	1.7
19	35491	19	67	27	32	22	48	72	22	12	31.500	1.3
20	35492	20	7	6	7	6	4	3	3	4	5.000	.1
21	35493	21	7	0	0	3	3	18	12	32	9.375	.8
22	35494	22	67	67	32	22	6	4	27	5	28.750	1.4
23	35495	23	4	12	12	5	7	15	27	48	16.250	1.2
24	35496	24	15	48	22	39	39	27	67	48	38.125	1.5
25	35497	25	67	22	22	6	6	4	12	6	10.125	.9
26	35498	26	0	3	4	3	3	3	3	5	3.000	.0
27	35499	27	6	5	9	27	32	39	80	18	27.000	1.6
28	35500	28	48	94	39	27	22	18	27	18	36.625	1.6
29	35501	29	12	12	12	15	32	22	22	9	17.000	1.0
30	35502	30	22	18	9	7	12	27	9	22	15.750	1.0
31	35503	31	15	18	12	22	18	18	12	22	17.125	.9



JANUARY 1956

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1					
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY				
1	35473	1	131.0	132.6	133.1	126.9	1	54	73.7	84.2	76.5
2	35474	2	130.0	131.9	133.2	127.3	1	49	71.8	83.0	76.6
3	35475	3	127.0	131.2	133.1	127.7	1	46	70.4	81.4	76.9
4	35476	4	125.0	130.6	132.9	128.1	1	41	69.3	79.4	77.3
5	35477	5	118.0	129.7	132.5	128.5	1	49	68.7	77.5	77.9
6	35478	6	122.0	129.2	132.3	129.1	1	49	67.7	75.8	78.5
7	35479	7	126.0	128.4	132.3	129.6	1	53	66.7	74.4	79.2
8	35480	8	124.0	127.7	132.1	130.0	1	57	65.9	73.2	79.8
9	35481	9	117.0	127.0	131.8	130.4	1	52	65.2	72.2	80.1
10	35482	10	113.0	126.1	131.4	130.6	1	32	64.1	71.1	80.2
11	35483	11	117.0	125.3	131.2	130.9	1	41	62.8	70.5	80.2
12	35484	12	126.0	124.7	131.1	131.1	1	65	62.7	70.7	80.3
13	35485	13	137.0	124.7	131.2	131.4	1	85	63.3	71.2	80.3
14	35486	14	138.0	124.8	131.4	131.5	1	90	63.4	71.7	80.3
15	35487	15	156.0	125.7	132.1	131.7	1	95	63.7	72.4	80.1
16	35488	16	163.0	126.9	132.8	132.0	1	118	64.6	73.4	80.4
17	35489	17	172.0	128.8	133.7	132.4	1	126	65.4	74.4	80.6
18	35490	18	179.0	130.8	134.6	132.8	1	130	67.1	75.4	80.7
19	35491	19	176.0	132.9	135.3	133.2	1	128	69.4	76.3	80.8
20	35492	20	175.0	135.1	136.0	133.6	1	120	72.0	76.8	80.7
21	35493	21	176.0	137.3	136.8	133.8	1	110	74.1	77.1	80.8
22	35494	22	183.0	139.8	137.7	134.4	1	100	75.6	77.1	80.9
23	35495	23	179.0	141.9	138.3	135.1	1	93	76.7	77.1	81.1
24	35496	24	176.0	143.8	139.0	135.8	1	87	77.5	76.9	81.6
25	35497	25	154.0	144.8	139.3	136.4	1	103	78.7	77.2	82.2
26	35498	26	135.0	144.9	139.4	136.8	1	69	78.2	77.1	82.6
27	35499	27	125.0	144.6	138.9	136.9	1	44	77.3	76.3	82.3
28	35500	28	122.0	144.3	138.4	136.9	1	48	77.0	75.4	81.8
29	35501	29	110.0	143.6	137.7	136.7	1	53	77.2	74.5	81.1
30	35502	30	108.0	142.9	137.0	136.4	1	48	77.3	73.8	80.0
31	35503	31	111.0	142.3	136.4	136.1	1	46	77.4	73.4	78.8

MONTHLY AVERAGE 140.5  
MONTHLY SMOOTHED 136.2

73.6  
88.8

FEBRUARY 1956

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	KP	2	KP	3	KP	4	KP	5	KP	6	KP	7	KP	8	SUM KP	AVG. KP
1	35504	32	3.667	3.333	3.667	2.000	2.000	2.667	2.333	3.333	2.667	2.333	3.333	3.333	3.333	3.333	24.333	3.042	
2	35505	33	3.333	3.000	3.667	3.333	3.667	2.333	3.333	3.667	3.333	2.667	3.333	3.667	3.333	3.333	26.333	3.292	
3	35506	34	3.000	3.667	2.333	2.667	2.333	2.000	1.667	3.000	3.000	1.667	3.000	4.000	4.000	4.000	22.000	2.750	
4	35507	35	2.333	3.000	2.333	2.333	2.333	2.667	1.333	2.667	2.667	1.333	2.667	2.333	2.667	2.333	19.000	2.375	
5	35508	36	1.000	1.333	1.000	1.333	1.000	1.667	1.333	2.667	1.333	1.667	1.333	2.667	2.333	2.667	12.667	1.583	
6	35509	37	3.667	1.333	1.333	2.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	13.667	1.708	
7	35510	38	1.000	1.667	1.000	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	7.333	.917	
8	35511	39	1.333	.000	.333	1.000	.333	1.000	.333	.333	.333	.333	.333	.333	.333	.333	4.667	.583	
9	35512	40	1.667	.667	.333	1.000	.667	.333	.333	.333	.333	.333	.333	.333	.333	.333	4.667	.583	
10	35513	41	.000	1.000	1.000	1.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	7.333	.917	
11	35514	42	4.000	3.000	1.667	2.000	3.333	2.667	3.333	2.667	4.667	4.667	4.667	4.667	4.667	4.667	26.000	3.250	
12	35515	43	5.000	4.667	5.333	4.667	3.000	3.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	29.667	3.708	
13	35516	44	2.000	1.667	3.333	3.333	3.333	2.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	17.667	2.208	
14	35517	45	1.000	1.667	1.333	1.667	.667	.667	1.000	1.000	.000	.000	.000	.333	.333	.333	7.667	.958	
15	35518	46	.333	.000	1.667	2.000	1.000	1.000	.667	.667	1.667	2.333	2.333	2.333	2.333	2.333	9.667	1.208	
16	35519	47	2.333	4.333	3.000	2.667	3.333	3.333	3.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	24.333	3.042	
17	35520	48	2.000	2.000	2.333	2.333	.667	.667	1.667	1.667	.667	.667	.667	.667	.667	.667	11.667	1.458	
18	35521	49	.000	2.000	1.333	2.333	.667	1.333	2.333	1.333	1.333	1.333	1.333	1.333	1.333	.333	9.333	1.167	
19	35522	50	4.333	2.333	3.000	4.333	3.667	2.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	24.667	3.083	
20	35523	51	.667	.667	1.000	1.000	1.000	3.333	2.000	.667	.667	.667	.667	.667	.667	.667	10.667	1.333	
21	35524	52	.667	1.333	1.000	1.333	2.000	2.000	2.000	3.333	3.333	3.333	3.333	3.333	3.333	3.333	13.333	1.667	
22	35525	53	4.000	4.000	3.000	4.333	3.000	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.333	24.000	3.000	
23	35526	54	1.333	.333	1.000	1.667	1.667	2.000	3.333	2.000	2.000	2.000	2.000	2.000	2.000	2.000	12.667	1.583	
24	35527	55	1.000	.667	.667	2.667	.667	2.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	13.333	1.667	
25	35528	56	.667	6.000	8.333	7.333	6.667	6.667	6.667	6.667	6.667	6.667	6.667	6.667	6.667	6.667	45.667	5.708	
26	35529	57	3.333	2.333	3.000	4.667	4.000	4.000	1.000	1.000	3.333	2.667	2.667	2.667	2.667	2.667	24.333	3.042	
27	35530	58	4.000	3.333	4.000	1.667	1.333	1.667	5.000	5.000	4.000	4.000	4.000	4.000	4.000	4.000	25.000	3.125	
28	35531	59	4.667	5.333	2.333	3.000	2.000	2.000	3.000	3.000	4.000	4.000	4.000	4.000	4.000	4.000	28.333	3.542	
29	35532	60	5.333	5.000	5.000	4.333	4.000	4.000	4.333	4.000	4.000	4.000	4.000	4.000	4.000	4.000	37.333	4.667	

44

1

FEBRUARY 1956

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
			35504	35505	35506	35507	35508	35509	35510	35511	35512	35513	35514	35515	35516	35517	35518	35519	35520	35521	35522	35523	35524	35525	35526	35527	35528	35529	35530	35531	35532
			115.0	117.0	117.0	117.0	107.0	104.0	106.0	110.0	117.0	122.0	134.0	155.0	164.0	186.0	220.0	241.0	250.0	253.0	250.0	246.0	237.0	221.0	205.0	179.0	167.0	155.0	143.0	144.0	158.0
			142.2	142.0	141.7	141.4	141.1	140.7	140.4	139.6	139.1	138.5	137.6	137.3	137.0	137.3	138.9	141.3	144.1	146.7	149.3	151.9	155.0	158.0	161.0	163.1	165.2	167.0	168.1	169.2	170.7
			136.0	135.6	135.1	134.6	134.1	133.4	132.9	132.3	131.9	131.6	131.6	132.1	132.9	134.0	135.9	138.2	140.7	143.2	145.6	147.8	149.9	151.4	152.8	153.7	154.4	154.9	155.2	155.7	156.4
			135.8	135.6	135.4	135.2	134.9	134.5	134.3	134.0	133.8	133.6	133.9	134.3	134.8	135.5	136.5	137.8	139.2	140.7	142.0	143.3	144.5	145.6	146.3	146.7	146.9	147.0	147.0	147.1	147.3
			50	63	60	57	31	32	29	26	31	40	56	80	90	142	168	224	237	270	246	260	208	186	177	156	149	125	132	132	
			77.5	78.0	78.3	78.3	77.5	77.5	77.0	75.6	73.6	71.7	70.3	68.9	67.6	68.0	69.5	73.3	78.0	84.3	90.0	96.4	100.3	104.6	109.6	113.6	117.1	120.5	123.4	126.5	129.0
			73.1	72.9	72.5	72.1	71.4	70.8	69.9	69.1	68.4	67.6	67.0	66.8	66.5	67.5	69.5	72.7	76.1	79.9	83.4	87.0	89.5	91.4	93.4	95.3	97.1	98.9	100.4	102.0	103.5
			77.5	76.6	75.7	74.9	74.0	73.3	72.7	72.3	72.0	71.7	71.7	71.9	72.1	72.9	74.0	75.7	77.4	79.5	81.4	83.4	84.9	86.3	87.4	88.1	88.7	89.4	90.0	90.9	91.6

MONTHLY AVERAGE 167.0 124.0  
MONTHLY SMOOTHED 143.7 96.5

MARCH 1956

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35533 61	2.667	3.333	4.000	4.000	4.000	2.667	1.667	3.667	4.333	26.333	3.292
2	35534 62	3.333	5.000	4.667	4.333	3.333	3.333	3.333	3.333	3.000	30.333	3.792
3	35535 63	4.667	5.667	6.333	7.333	6.333	6.333	6.000	7.333	7.000	50.667	6.333
4	35536 64	5.333	4.333	4.333	3.333	3.333	4.000	3.000	1.667	1.333	27.333	3.417
5	35537 65	1.667	2.333	2.667	1.000	1.667	2.667	2.667	2.667	1.667	16.333	2.042
6	35538 66	2.667	3.000	2.667	1.667	1.667	3.667	2.000	3.667	1.667	21.000	2.625
7	35539 67	.000	.000	.333	.333	2.333	1.333	1.000	.667	.667	6.333	.792
8	35540 68	.667	1.000	.667	.667	.667	.333	.333	.000	.000	3.667	.458
9	35541 69	.000	.000	.333	.333	.333	.333	.333	.000	1.333	2.667	.333
10	35542 70	1.667	3.000	2.667	2.667	2.667	1.333	1.333	4.000	6.000	22.667	2.833
11	35543 71	6.000	3.667	4.333	2.667	2.667	2.000	2.000	2.000	4.000	26.667	3.333
12	35544 72	2.667	1.333	2.000	2.000	2.000	2.333	2.333	2.333	2.000	17.000	2.125
13	35545 73	2.333	3.333	3.000	2.000	2.000	1.667	1.667	1.000	3.000	18.000	2.250
14	35546 74	2.667	2.333	2.667	4.000	4.000	3.667	3.333	1.333	2.333	22.333	2.792
15	35547 75	3.000	2.000	2.333	2.333	2.333	1.667	2.333	1.667	.667	16.000	2.000
16	35548 76	1.000	.333	2.000	2.000	2.000	1.333	1.000	1.000	2.667	11.333	1.417
17	35549 77	.667	1.000	1.000	1.000	1.000	.667	.333	.333	1.333	6.333	.792
18	35550 78	.333	.333	1.667	1.667	1.667	2.000	2.333	.667	1.667	10.667	1.333
19	35551 79	3.000	2.667	1.667	1.667	1.667	2.000	2.000	2.333	4.000	19.333	2.417
20	35552 80	4.000	3.000	.667	.667	1.333	2.000	2.000	2.000	3.000	18.000	2.250
21	35553 81	4.333	3.333	5.333	5.333	4.333	3.333	4.667	5.000	5.667	36.000	4.500
22	35554 82	7.000	6.333	5.000	3.667	4.000	4.000	4.333	4.333	6.333	41.000	5.125
23	35555 83	6.333	6.000	5.000	2.000	2.000	1.667	1.333	1.000	.333	23.667	2.958
24	35556 84	2.000	2.000	3.000	4.333	4.333	4.000	6.000	4.000	4.333	29.667	3.708
25	35557 85	4.667	3.333	2.667	3.333	3.333	2.000	2.667	3.667	4.667	27.000	3.375
26	35558 86	3.000	2.667	3.000	4.000	4.000	4.333	3.000	3.000	4.000	27.000	3.375
27	35559 87	3.000	2.667	1.333	2.000	2.000	2.000	3.333	2.667	3.333	20.333	2.542
28	35560 88	4.667	4.333	2.333	2.667	2.667	3.333	3.333	4.667	5.000	30.333	3.792
29	35561 89	6.333	4.667	5.000	4.000	4.000	2.667	4.000	4.000	4.333	35.000	4.375
30	35562 90	.667	3.333	2.667	1.333	1.333	2.000	2.333	3.333	4.333	20.000	2.500
31	35563 91	4.667	4.000	3.000	2.333	2.333	3.333	2.333	2.333	1.667	23.667	2.958

GEOMAGNETIC PLANETARY INDICES

[illegible]

MONTHLY AVERAGE	159.7
MONTHLY SMOOTHED	152.4

118.4  
1109.3

APRIL 1956

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35564	92	2.667	4.667	4.000	1.000	1.667	2.333	1.000	2.000	19.333	2.417
2	35565	93	1.667	1.000	1.667	4.000	4.000	3.667	4.000	4.333	24.333	3.042
3	35566	94	3.667	5.333	3.000	3.000	3.333	3.000	2.000	2.333	25.667	3.208
4	35567	95	3.667	4.000	3.000	3.667	2.333	2.000	3.000	1.000	22.667	2.833
5	35568	96	2.333	3.000	2.667	1.667	2.667	3.333	3.333	3.333	22.333	2.792
6	35569	97	2.333	1.667	3.000	2.667	4.333	2.667	3.000	4.333	24.000	3.000
7	35570	98	5.333	3.000	3.667	3.333	3.667	3.000	2.000	2.333	26.333	3.292
8	35571	99	2.333	2.333	3.667	3.333	2.667	1.667	2.000	1.000	19.000	2.375
9	35572	100	1.000	2.333	3.000	2.333	3.000	1.667	2.333	1.667	17.333	2.167
10	35573	101	1.000	1.667	3.000	3.667	3.667	4.333	1.333	2.667	21.333	2.667
11	35574	102	2.000	3.000	1.667	2.000	3.000	3.333	4.000	2.667	21.667	2.708
12	35575	103	3.333	2.000	3.333	2.667	3.333	3.000	1.667	1.333	20.667	2.583
13	35576	104	2.000	3.000	3.000	2.333	2.000	1.333	1.000	1.000	15.667	1.958
14	35577	105	.333	1.667	2.667	2.333	2.333	2.000	1.667	1.667	14.667	1.833
15	35578	106	1.667	1.667	1.667	1.333	1.667	2.333	2.667	2.000	15.000	1.875
16	35579	107	1.667	3.667	2.667	1.667	1.667	4.000	3.000	3.667	22.000	2.750
17	35580	108	5.000	4.667	3.000	2.667	3.333	2.667	3.000	3.000	27.333	3.417
18	35581	109	2.333	3.667	4.000	3.000	2.667	2.000	2.333	3.667	23.667	2.958
19	35582	110	2.000	3.667	4.000	2.000	2.667	3.000	2.000	1.000	20.333	2.542
20	35583	111	3.000	2.333	2.000	1.667	1.333	.667	2.667	2.667	16.333	2.042
21	35584	112	3.333	3.333	3.333	5.333	5.333	4.667	7.000	7.000	39.333	4.917
22	35585	113	6.667	7.333	7.000	7.000	3.667	4.667	3.667	4.000	44.000	5.500
23	35586	114	4.000	3.333	2.333	2.333	2.000	1.000	1.333	2.000	18.333	2.292
24	35587	115	1.667	2.333	.667	1.000	1.667	.667	.667	1.667	10.333	1.292
25	35588	116	3.333	1.333	1.000	2.667	1.333	2.333	2.000	2.000	16.000	2.000
26	35589	117	2.000	3.333	3.667	4.000	4.000	2.333	4.000	7.667	31.000	3.875
27	35590	118	8.667	8.667	7.667	7.667	6.667	6.667	7.000	5.667	58.667	7.333
28	35591	119	7.000	7.000	4.000	2.667	2.000	3.333	5.333	7.000	38.333	4.792
29	35592	120	7.667	6.333	6.000	5.333	3.667	3.333	2.000	2.333	36.667	4.583
30	35593	121	6.000	6.333	5.000	4.333	5.000	5.000	4.667	3.333	39.667	4.958



## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER																																																																																																																																																																																																																																																																																																																																																				
			AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AP 9	AP 10	AP 11	AP 12	AP 13	AP 14	AP 15	AP 16	AP 17	AP 18	AP 19	AP 20	AP 21	AP 22	AP 23	AP 24	AP 25	AP 26	AP 27	AP 28	AP 29	AP 30	AP 31	AP 32	AP 33	AP 34	AP 35	AP 36	AP 37	AP 38	AP 39	AP 40	AP 41	AP 42	AP 43	AP 44	AP 45	AP 46	AP 47	AP 48	AP 49	AP 50	AP 51	AP 52	AP 53	AP 54	AP 55	AP 56	AP 57	AP 58	AP 59	AP 60	AP 61	AP 62	AP 63	AP 64	AP 65	AP 66	AP 67	AP 68	AP 69	AP 70	AP 71	AP 72	AP 73	AP 74	AP 75	AP 76	AP 77	AP 78	AP 79	AP 80	AP 81	AP 82	AP 83	AP 84	AP 85	AP 86	AP 87	AP 88	AP 89	AP 90	AP 91	AP 92	AP 93	AP 94	AP 95	AP 96	AP 97	AP 98	AP 99	AP 100	AP 101	AP 102	AP 103	AP 104	AP 105	AP 106	AP 107	AP 108	AP 109	AP 110	AP 111	AP 112	AP 113	AP 114	AP 115	AP 116	AP 117	AP 118	AP 119	AP 120	AP 121	AP 122	AP 123	AP 124	AP 125	AP 126	AP 127	AP 128	AP 129	AP 130	AP 131	AP 132	AP 133	AP 134	AP 135	AP 136	AP 137	AP 138	AP 139	AP 140	AP 141	AP 142	AP 143	AP 144	AP 145	AP 146	AP 147	AP 148	AP 149	AP 150	AP 151	AP 152	AP 153	AP 154	AP 155	AP 156	AP 157	AP 158	AP 159	AP 160	AP 161	AP 162	AP 163	AP 164	AP 165	AP 166	AP 167	AP 168	AP 169	AP 170	AP 171	AP 172	AP 173	AP 174	AP 175	AP 176	AP 177	AP 178	AP 179	AP 180	AP 181	AP 182	AP 183	AP 184	AP 185	AP 186	AP 187	AP 188	AP 189	AP 190	AP 191	AP 192	AP 193	AP 194	AP 195	AP 196	AP 197	AP 198	AP 199	AP 200	AP 201	AP 202	AP 203	AP 204	AP 205	AP 206	AP 207	AP 208	AP 209	AP 210	AP 211	AP 212	AP 213	AP 214	AP 215	AP 216	AP 217	AP 218	AP 219	AP 220	AP 221	AP 222	AP 223	AP 224	AP 225	AP 226	AP 227	AP 228	AP 229	AP 230	AP 231	AP 232	AP 233	AP 234	AP 235	AP 236	AP 237	AP 238	AP 239	AP 240	AP 241	AP 242	AP 243	AP 244	AP 245	AP 246	AP 247	AP 248	AP 249	AP 250	AP 251	AP 252	AP 253	AP 254	AP 255	AP 256	AP 257	AP 258	AP 259	AP 260	AP 261	AP 262	AP 263	AP 264	AP 265	AP 266	AP 267	AP 268	AP 269	AP 270	AP 271	AP 272	AP 273	AP 274	AP 275	AP 276	AP 277	AP 278	AP 279	AP 280	AP 281	AP 282	AP 283	AP 284	AP 285	AP 286	AP 287	AP 288	AP 289	AP 290	AP 291	AP 292	AP 293	AP 294	AP 295	AP 296	AP 297	AP 298	AP 299	AP 300	AP 301	AP 302	AP 303	AP 304	AP 305	AP 306	AP 307	AP 308	AP 309	AP 310	AP 311	AP 312	AP 313	AP 314	AP 315	AP 316	AP 317	AP 318	AP 319	AP 320	AP 321	AP 322	AP 323	AP 324	AP 325	AP 326	AP 327	AP 328	AP 329	AP 330	AP 331	AP 332	AP 333	AP 334	AP 335	AP 336	AP 337	AP 338	AP 339	AP 340	AP 341

APRIL 1956

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			35564	92	1	145.0	160.7	169.5	159.8	1	82	116.8	130.1	112.4																		
			35565	93	1	135.0	160.2	169.9	159.9	1	69	115.3	130.9	112.5																		
			35566	94	1	129.0	159.5	170.2	159.8	1	66	113.8	131.6	112.3																		
			35567	95	1	136.0	158.9	170.4	159.8	1	66	112.4	132.1	112.0																		
			35568	96	1	134.0	158.1	170.4	159.5	1	50	110.4	132.0	111.4																		
			35569	97	1	145.0	157.7	170.2	159.3	1	45	108.5	131.3	110.5																		
			35570	98	1	155.0	157.6	170.1	159.0	1	63	107.6	130.8	109.7																		
			35571	99	1	164.0	157.8	169.7	158.9	1	86	107.6	129.8	109.2																		
			35572	100	1	175.0	158.2	168.8	158.9	1	103	107.9	128.6	108.9																		
			35573	101	1	186.0	158.7	167.9	159.0	1	145	108.7	127.1	109.2																		
			35574	102	1	185.0	159.2	166.6	159.1	1	145	108.9	125.4	109.6																		
			35575	103	1	186.0	159.9	165.4	159.2	1	160	109.8	123.4	110.4																		
			35576	104	1	193.0	160.9	164.4	159.3	1	178	111.3	122.1	111.4																		
			35577	105	1	198.0	162.0	163.5	159.6	1	164	112.6	120.3	112.4																		
			35578	106	1	196.0	162.9	162.7	160.1	1	152	113.4	119.3	113.0																		
			35579	107	1	194.0	164.0	162.2	160.8	1	155	114.7	118.7	114.0																		
			35580	108	1	191.0	165.1	161.9	161.6	1	172	116.5	118.6	115.6																		
			35581	109	1	191.0	166.1	162.2	162.5	1	166	118.3	118.8	117.1																		
			35582	110	1	179.0	164.5	162.4	163.3	1	155	119.2	118.9	118.3																		
			35583	111	1	175.0	166.9	162.8	164.2	1	145	119.6	119.0	119.5																		
			35584	112	1	188.0	168.0	163.6	165.1	1	145	119.8	119.4	120.7																		
			35585	113	1	187.0	169.3	164.4	166.0	1	130	119.4	119.4	121.7																		
			35586	114	1	163.0	169.3	164.5	166.6	1	121	119.7	119.1	122.4																		
			35587	115	1	166.0	169.4	164.7	167.2	1	96	118.9	118.1	122.9																		
			35588	116	1	152.0	168.9	164.6	167.6	1	104	118.2	117.8	123.5																		
			35589	117	1	156.0	168.9	164.6	168.2	1	91	117.3	117.4	124.2																		
			35590	118	1	137.0	168.3	164.5	168.6	1	91	116.5	117.2	124.9																		
			35591	119	1	131.0	167.7	164.2	168.9	1	67	115.9	116.4	125.4																		
			35592	120	1	125.0	167.4	163.8	169.1	1	40	114.9	115.1	125.6																		
			35593	121	1	136.0	167.6	163.6	169.3	1	70	115.0	114.4	126.1																		

MONTHLY AVERAGE 164.5  
MONTHLY SMOOTHED 160.4

110.7  
118.7



GEOMAGNETIC PLANETARY INDICES

53

MAY 1956

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1		
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	35594 122	1 151.0	168.2	163.5	169.7	1 94	116.0	114.2	126.7
2	35595 123	1 158.0	169.1	163.6	170.0	1 107	118.1	114.3	127.4
3	35596 124	1 157.0	169.5	163.6	170.0	1 138	121.6	115.1	128.1
4	35597 125	1 157.0	169.6	163.6	169.9	1 169	125.5	116.6	129.0
5	35598 126	1 162.0	169.5	163.6	169.6	1 158	128.2	117.9	129.2
6	35599 127	1 164.0	169.1	163.7	168.9	1 162	130.4	119.1	129.2
7	35600 128	1 165.0	169.3	163.5	168.0	1 162	131.0	119.9	128.4
8	35601 129	1 166.0	167.6	163.4	167.0	1 186	132.5	120.7	127.8
9	35602 130	1 169.0	166.9	163.4	165.9	1 180	133.3	121.5	126.7
10	35603 131	1 179.0	166.4	163.6	165.0	1 178	133.3	122.3	125.8
11	35604 132	1 177.0	165.6	163.8	164.2	1 169	133.4	123.0	124.7
12	35605 133	1 178.0	165.0	163.9	163.5	1 154	133.5	123.5	124.0
13	35606 134	1 175.0	164.3	164.1	162.9	1 142	133.0	123.9	123.5
14	35607 135	1 167.0	163.4	164.2	162.4	1 133	131.6	124.1	123.0
15	35608 136	1 161.0	162.3	164.2	162.2	1 110	129.5	123.9	122.4
16	35609 137	1 156.0	161.4	163.9	162.1	1 122	128.3	123.8	122.0
17	35610 138	1 161.0	160.9	163.9	162.1	1 132	127.3	123.7	122.0
18	35611 139	1 170.0	160.2	164.1	162.5	1 144	127.8	123.8	122.2
19	35612 140	1 168.0	159.5	164.4	162.8	1 140	128.1	123.8	122.3
20	35613 141	1 176.0	160.0	164.7	163.0	1 127	128.4	124.0	122.2
21	35614 142	1 162.0	159.9	164.6	163.1	1 144	130.1	124.5	122.1
22	35615 143	1 156.0	160.0	164.4	163.0	1 119	130.7	124.5	122.1
23	35616 144	1 147.0	159.7	164.3	163.0	1 82	130.4	123.8	121.7
24	35617 145	1 147.0	160.0	164.1	163.0	1 102	130.8	123.6	121.7
25	35618 146	1 153.0	160.9	164.3	163.1	1 103	132.1	124.0	121.6
26	35619 147	1 159.0	162.1	164.7	163.2	1 120	135.1	125.0	121.7
27	35620 148	1 157.0	162.9	165.3	163.3	1 115	136.7	125.9	121.8
28	35621 149	1 165.0	163.4	165.8	163.5	1 137	138.3	127.2	122.2
29	35622 150	1 177.0	164.1	166.6	163.8	1 136	139.4	128.8	122.7
30	35623 151	1 167.0	164.5	167.0	163.9	1 146	139.7	130.6	123.3
31	35624 152	1 155.0	164.4	167.0	163.9	1 123	138.0	131.8	123.7

MONTHLY AVERAGE 163.3  
MONTHLY SMOOTHED 169.2

136.5  
127.4

# GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35625 153	3.667	4.000	3.667	4.333	3.667	3.667	3.333	2.667	29.000	3.625
2	35626 154	2.333	3.000	2.667	2.667	3.667	3.333	2.333	1.333	21.333	2.667
3	35627 155	3.000	1.667	1.000	1.333	2.000	2.333	1.667	3.000	16.000	2.000
4	35628 156	1.667	1.667	1.333	2.333	3.000	2.667	2.333	1.667	16.667	2.083
5	35629 157	1.333	2.000	2.667	1.333	2.000	3.667	3.333	2.000	18.333	2.292
6	35630 158	1.333	2.333	2.000	2.667	5.000	3.667	2.000	1.667	20.667	2.583
7	35631 159	1.333	2.000	2.333	1.333	1.667	2.333	2.333	2.000	15.333	1.917
8	35632 160	3.667	2.000	3.000	4.333	2.333	2.667	3.333	3.667	25.000	3.125
9	35633 161	2.333	2.667	5.000	2.667	3.333	2.333	3.333	2.667	24.333	3.042
10	35634 162	3.000	2.333	2.667	2.333	2.000	4.667	3.000	4.000	24.000	3.000
11	35635 163	4.000	3.333	4.333	3.333	4.000	3.000	3.000	2.667	27.667	3.458
12	35636 164	3.333	2.667	2.667	2.000	1.667	1.333	1.667	2.667	18.000	2.250
13	35637 165	3.000	2.667	2.000	2.333	3.000	3.000	3.000	4.333	23.333	2.917
14	35638 166	3.333	2.667	3.667	3.667	3.333	3.000	4.000	3.333	27.000	3.375
15	35639 167	4.667	4.333	4.333	3.333	3.667	3.667	3.333	4.333	31.667	3.958
16	35640 168	3.000	3.000	3.333	2.667	3.333	2.333	3.333	2.667	23.667	2.958
17	35641 169	1.000	1.667	1.333	1.000	2.333	3.333	2.667	3.667	17.000	2.125
18	35642 170	3.000	1.333	1.333	2.000	1.333	1.667	1.000	2.000	13.667	1.708
19	35643 171	1.333	.667	2.000	1.000	1.333	2.000	2.000	4.000	14.333	1.792
20	35644 172	2.000	1.333	1.333	2.000	2.333	1.667	2.333	2.667	15.667	1.958
21	35645 173	3.333	2.000	2.333	2.000	1.333	1.667	2.667	3.000	18.333	2.292
22	35646 174	3.000	2.000	1.667	2.000	2.000	2.333	2.333	1.333	16.667	2.067
23	35647 175	2.333	1.333	1.000	2.000	1.667	2.000	4.667	6.333	21.333	2.667
24	35648 176	5.000	5.000	2.667	3.000	5.000	6.000	4.667	6.000	37.333	4.567
25	35649 177	6.333	6.667	6.333	3.667	3.333	4.667	4.000	2.333	37.333	4.667
26	35650 178	1.667	2.333	3.333	3.333	4.333	3.667	3.333	3.333	25.333	3.167
27	35651 179	2.667	4.667	3.667	3.667	3.000	3.667	3.000	2.000	26.333	3.292
28	35652 180	2.000	2.667	4.000	2.333	3.000	2.000	3.000	2.000	21.000	2.625
29	35653 181	1.667	2.000	3.667	4.667	2.667	2.667	4.000	3.000	24.000	3.000
30	35654 182	1.667	4.333	3.667	4.000	4.333	4.667	4.000	3.000	29.667	3.708

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES													MAGNETIC CHARACTER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
DAY OF MONTH	MOD. JULIAN DAY	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP

JUNE 1956

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	DAILY 27-DAY	DAILY 27-DAY	54-DAY	81-DAY			
DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	54-DAY	81-DAY			
1	35625	153	1	155.0	164.1	166.8	163.8	1	98	135.8	132.0	123.9
2	35626	154	1	149.0	163.6	166.3	163.6	1	105	133.7	132.0	124.0
3	35627	155	1	148.0	162.9	165.6	163.3	1	109	131.7	131.4	123.8
4	35628	156	1	149.0	162.3	164.9	163.0	1	106	128.7	130.6	123.4
5	35629	157	1	149.0	161.6	164.2	162.8	1	117	126.4	129.8	123.2
6	35630	158	1	147.0	160.4	163.4	162.6	1	118	124.2	128.7	122.9
7	35631	159	1	146.0	159.2	162.4	162.3	1	111	122.0	127.7	122.7
8	35632	160	1	141.0	157.9	161.4	161.9	1	90	119.7	126.6	122.2
9	35633	161	1	138.0	156.5	160.4	161.6	1	85	117.6	125.3	121.8
10	35634	162	1	134.0	155.3	159.3	161.2	1	89	115.9	123.8	121.3
11	35635	163	1	137.0	154.4	158.3	160.9	1	97	115.1	122.3	121.0
12	35636	164	1	137.0	153.7	157.5	160.5	1	97	114.1	121.2	120.6
13	35637	165	1	147.0	153.1	157.0	160.3	1	103	113.1	120.4	120.1
14	35638	166	1	147.0	152.3	156.3	160.2	1	112	111.9	119.8	119.8
15	35639	167	1	160.0	152.0	155.8	160.3	1	119	111.1	119.6	119.6
16	35640	168	1	158.0	151.3	155.7	160.2	1	132	111.3	119.8	119.8
17	35641	169	1	159.0	151.2	155.5	160.2	1	120	110.4	120.3	119.8
18	35642	170	1	171.0	151.8	155.9	160.2	1	130	110.8	120.8	119.9
19	35643	171	1	179.0	153.0	156.3	160.5	1	167	114.0	122.2	120.5
20	35644	172	1	187.0	154.4	157.2	160.9	1	161	116.1	123.5	121.1
21	35645	173	1	187.0	155.7	158.3	161.4	1	162	118.3	125.2	122.1
22	35646	174	1	182.0	156.6	159.3	162.0	1	150	119.4	127.3	123.1
23	35647	175	1	170.0	157.0	160.0	162.5	1	139	120.3	128.5	124.0
24	35648	176	1	173.0	157.3	160.4	163.0	1	125	119.9	129.1	124.8
25	35649	177	1	158.0	156.6	160.4	163.3	1	106	118.8	129.1	125.4
26	35650	178	1	138.0	155.6	160.0	163.2	1	70	116.0	127.8	125.8
27	35651	179	1	134.0	154.8	159.6	162.9	1	71	114.0	126.0	125.9
28	35652	180	1	139.0	154.2	159.2	162.6	1	122	114.9	125.4	126.3
29	35653	181	1	148.0	154.2	158.9	162.3	1	135	116.0	124.9	126.7
30	35654	182	1	150.0	154.3	158.6	161.8	1	162	118.0	124.9	126.9

MONTHLY AVERAGE 153.9  
MONTHLY SMOOTHED 179.2

116.6  
136.9



JULY 1956

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35655 183	2.000	2.000	3.333	2.667	3.333	3.667	2.667	2.667	3.000	22.667	2.833
2	35656 184	2.667	1.667	4.000	2.667	3.333	3.333	3.333	3.333	2.333	22.667	2.833
3	35657 185	3.000	3.000	3.667	3.333	3.667	2.333	2.333	.667	.667	20.333	2.542
4	35658 186	1.333	2.667	2.667	2.333	1.000	1.000	1.000	1.333	1.000	13.333	1.667
5	35659 187	1.333	1.333	2.333	2.333	3.000	2.667	2.667	1.667	2.333	16.667	2.083
6	35660 188	1.667	1.667	1.667	2.000	1.333	1.333	1.667	1.333	.333	11.667	1.458
7	35661 189	.333	.667	.667	.333	1.333	1.333	1.333	1.333	1.333	7.333	.917
8	35662 190	3.333	3.333	2.667	2.000	1.667	1.333	2.000	2.000	4.333	20.667	2.583
9	35663 191	3.667	3.000	3.333	2.667	2.000	1.000	.667	.667	1.667	18.000	2.250
10	35664 192	.667	1.667	1.667	1.667	1.667	2.333	4.667	4.667	3.667	17.000	2.125
11	35665 193	3.333	3.333	3.000	1.667	1.667	2.667	2.667	2.667	3.000	22.333	2.792
12	35666 194	1.667	3.000	3.000	1.333	1.333	2.000	1.333	2.567	1.667	16.667	2.083
13	35667 195	3.333	2.333	1.333	1.667	1.667	3.000	4.333	4.667	4.333	25.000	3.125
14	35668 196	5.000	2.000	1.333	1.667	1.667	2.000	2.000	2.333	3.000	19.333	2.417
15	35669 197	2.000	2.000	1.000	1.333	1.333	1.333	1.667	3.000	1.333	13.667	1.708
16	35670 198	2.333	2.333	2.333	1.333	1.333	2.333	2.000	1.333	1.667	15.667	1.958
17	35671 199	1.000	2.000	1.667	1.667	1.667	.667	.333	1.333	2.000	10.667	1.333
18	35672 200	1.000	1.000	.333	.333	.333	1.000	1.667	2.000	1.667	9.000	1.125
19	35673 201	3.000	2.333	2.333	1.667	1.667	2.667	2.667	3.000	4.333	22.000	2.750
20	35674 202	3.667	2.000	2.333	1.333	1.333	3.000	2.667	2.333	2.333	19.667	2.458
21	35675 203	.333	.333	.667	.333	.333	1.333	.667	1.333	1.333	7.333	.917
22	35676 204	1.667	1.333	.667	1.000	1.000	1.333	1.667	.667	1.667	10.000	1.250
23	35677 205	2.000	1.667	1.333	1.667	1.667	3.333	3.000	4.000	5.000	22.000	2.750
24	35678 206	3.333	2.667	4.667	5.000	5.000	3.333	3.333	1.667	2.000	26.667	3.333
25	35679 207	3.000	4.000	4.000	5.000	5.000	4.000	3.333	2.667	4.333	29.667	3.708
26	35680 208	4.667	4.000	5.667	5.333	5.333	4.333	4.333	4.000	5.000	37.333	4.667
27	35681 209	4.000	3.667	3.667	3.333	3.333	2.000	3.000	3.000	3.333	26.333	3.292
28	35682 210	3.000	3.000	2.667	4.667	4.667	3.333	3.000	4.667	4.333	28.667	3.583
29	35683 211	2.667	1.667	5.000	2.333	2.333	2.667	5.333	2.667	2.000	24.333	3.042
30	35684 212	3.333	2.333	3.000	2.667	2.667	2.000	1.333	2.000	1.667	18.333	2.292
31	35685 213	1.000	1.333	2.333	2.333	2.333	4.667	3.000	1.667	2.000	18.333	2.292

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

JULY 1956

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	I---SOLAR FLUX(10.7CM OTTAWA)-----I---RELATIVE ZURICH SUNSPOT NUMBER---I					I-----RUNNING MEANS-----I-----RUNNING MEANS-----I				
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	81-DAY
1	35655 183	153.0	154.4	158.4	161.4	1	164	120.1	124.4	127.1	127.1
2	35656 184	155.0	154.6	158.1	161.0	1	155	121.6	124.0	127.1	127.1
3	35657 185	157.0	155.0	157.7	160.6	1	133	122.1	123.1	126.5	126.5
4	35658 186	152.0	155.2	157.2	160.0	1	153	123.7	122.9	126.4	126.4
5	35659 187	158.0	155.9	156.9	159.6	1	138	125.4	122.6	126.2	126.2
6	35660 188	156.0	156.5	156.5	159.1	1	139	127.4	122.5	126.0	126.0
7	35661 189	166.0	157.7	156.5	158.8	1	163	130.2	123.1	125.9	125.9
8	35662 190	174.0	159.1	156.7	158.6	1	150	132.8	123.9	125.8	125.8
9	35663 191	172.0	160.4	157.0	158.5	1	150	134.8	124.5	125.7	125.7
10	35664 192	169.0	161.2	157.2	158.4	1	157	136.8	124.9	125.9	125.9
11	35665 193	179.0	162.4	157.3	158.3	1	177	139.2	125.5	126.3	126.3
12	35666 194	172.0	163.6	157.8	158.4	1	216	142.8	126.9	127.3	127.3
13	35667 195	183.0	164.5	157.9	158.6	1	192	145.0	128.1	128.2	128.2
14	35668 196	172.0	165.0	158.1	158.7	1	156	146.3	128.4	129.0	129.0
15	35669 197	161.0	164.6	158.2	158.8	1	156	147.3	129.1	129.6	129.6
16	35670 198	154.0	163.7	158.3	158.8	1	144	146.4	130.2	130.3	130.3
17	35671 199	146.0	162.1	158.3	158.9	1	98	144.1	130.1	130.3	130.3
18	35672 200	146.0	160.6	158.2	159.1	1	67	140.6	129.5	130.3	130.3
19	35673 201	144.0	159.2	157.9	159.3	1	65	137.4	128.4	130.7	130.7
20	35674 202	144.0	158.3	157.6	159.4	1	71	134.9	127.6	130.7	130.7
21	35675 203	156.0	157.6	157.5	159.5	1	78	133.2	126.5	130.5	130.5
22	35676 204	165.0	157.9	157.3	159.5	1	86	132.4	125.6	130.2	130.2
23	35677 205	181.0	159.5	157.5	159.8	1	113	134.0	125.0	129.9	129.9
24	35678 206	172.0	160.9	157.8	160.0	1	84	134.5	124.3	128.9	128.9
25	35679 207	170.0	162.0	158.1	160.1	1	90	133.3	124.1	120.0	120.0
26	35680 208	159.0	162.4	158.3	160.1	1	100	132.0	124.0	127.2	127.2
27	35681 209	160.0	162.8	158.5	160.0	1	116	130.3	124.2	126.7	126.7
28	35682 210	155.0	162.9	158.6	159.9	1	104	128.1	124.1	125.7	125.7
29	35683 211	158.0	163.0	158.8	159.7	1	108	126.4	124.0	124.8	124.8
30	35684 212	162.0	163.2	159.1	159.5	1	130	126.3	124.2	124.2	124.2
31	35685 213	168.0	163.8	159.5	159.4	1	140	125.8	124.7	123.8	123.8

MONTHLY AVERAGE 162.5  
MONTHLY SMOOTHED 188.0

129.1  
145.5

AUGUST 1956

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	1	2	3	4	5	6	7	8	SUM	AVG.
1	35686 214	4.000	1.667	1.333	2.333	2.667	2.000	1.667	2.000	17.667	2.208
2	35687 215	2.333	1.333	2.333	2.333	2.000	1.333	1.667	2.000	14.333	1.792
3	35688 216	1.000	1.000	2.333	1.667	2.333	2.000	.333	1.667	12.333	1.542
4	35689 217	1.667	1.000	.333	.333	.667	1.000	1.333	2.000	8.333	1.042
5	35690 218	1.000	2.000	1.667	.667	.333	.667	1.000	1.000	8.333	1.042
6	35691 219	1.000	1.000	.333	1.333	1.667	1.667	2.000	1.667	10.667	1.333
7	35692 220	.667	1.667	.667	.667	.333	.667	1.667	1.667	8.000	1.000
8	35693 221	1.667	1.333	2.667	2.667	1.333	3.667	3.667	2.333	19.333	2.417
9	35694 222	2.000	2.333	2.000	4.000	4.667	4.333	4.000	3.667	27.000	3.375
10	35695 223	3.000	3.000	2.333	1.333	2.333	1.667	1.000	2.667	17.333	2.167
11	35696 224	5.000	4.000	4.000	4.333	4.000	4.333	5.333	3.333	34.333	4.292
12	35697 225	3.000	3.333	3.333	3.333	4.000	2.667	3.667	4.333	27.667	3.458
13	35698 226	.667	1.333	1.333	1.667	2.333	1.333	1.667	2.000	12.333	1.542
14	35699 227	2.000	2.000	1.000	1.333	.667	.333	1.000	2.000	10.333	1.292
15	35700 228	.667	1.000	.667	1.000	2.000	1.000	2.000	2.000	10.333	1.292
16	35701 229	1.000	.333	.333	1.000	1.333	2.667	1.667	2.333	10.667	1.333
17	35702 230	3.667	4.667	4.667	4.000	4.000	2.667	1.333	1.667	26.667	3.333
18	35703 231	1.667	1.333	1.333	1.000	1.000	.667	1.000	1.000	9.000	1.125
19	35704 232	.667	.333	.667	.333	.667	.667	.333	1.000	4.667	.583
20	35705 233	1.000	1.000	1.333	.667	.333	1.000	.333	.667	6.333	.792
21	35706 234	.333	2.000	2.667	3.333	5.667	4.667	3.667	3.667	26.000	3.250
22	35707 235	3.000	1.667	1.667	1.667	3.333	2.333	2.667	3.000	19.333	2.417
23	35708 236	3.000	2.667	3.667	3.667	5.333	3.333	3.667	6.000	31.333	3.917
24	35709 237	7.000	5.667	4.000	5.667	6.667	7.667	5.000	4.667	46.333	5.792
25	35710 238	4.000	3.667	3.667	4.333	5.000	5.667	4.000	4.333	34.667	4.333
26	35711 239	6.333	4.333	5.333	3.333	2.667	3.333	4.333	2.333	32.000	4.000
27	35712 240	2.667	3.667	3.667	2.667	3.667	2.667	1.667	2.667	23.333	2.917
28	35713 241	4.333	3.333	1.667	2.333	2.667	3.333	2.000	2.333	22.000	2.750
29	35714 242	1.667	2.000	2.000	2.667	4.000	3.000	2.333	2.667	20.333	2.542
30	35715 243	2.333	2.333	3.333	3.000	2.333	1.667	1.667	.667	17.333	2.167
31	35716 244	.667	.667	1.333	5.333	4.333	4.333	4.000	2.667	23.333	2.917

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. OF JULIAN DAY	DAY YEAR												MAGNETIC CHARACTER
		AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AP 9	AP 10	AP 11	AP 12	
1	35686	214	27	6	5	9	12	7	6	7	9.875	.5		
2	35687	215	9	5	5	9	7	5	6	7	6.625	.4		
3	35688	216	4	4	9	6	9	7	2	6	5.875	.2		
4	35689	217	6	4	2	2	3	4	5	7	4.125	.1		
5	35690	218	4	7	6	3	2	3	4	4	4.125	.1		
6	35691	219	4	4	2	5	6	6	7	6	5.000	.2		
7	35692	220	3	6	3	3	2	3	6	6	4.000	.2		
8	35693	221	6	5	12	12	5	22	22	9	11.625	.9		
9	35694	222	7	9	7	27	39	32	27	22	21.250	1.1		
10	35695	223	15	15	9	5	9	6	4	12	9.375	.6		
11	35696	224	48	27	27	32	27	32	56	18	33.375	1.5		
12	35697	225	15	18	18	19	27	12	22	32	20.250	1.1		
13	35698	226	3	5	5	6	9	5	6	7	5.750	.4		
14	35699	227	7	7	4	5	3	2	4	7	4.875	.2		
15	35700	228	3	4	3	4	7	4	7	7	4.875	.2		
16	35701	229	4	2	2	4	5	12	6	9	5.500	.3		
17	35702	230	22	39	39	27	27	12	5	6	22.125	1.0		
18	35703	231	6	5	5	4	4	3	4	4	4.375	.1		
19	35704	232	3	2	3	2	3	3	2	4	2.750	.0		
20	35705	233	4	4	5	3	2	4	2	3	3.375	.0		
21	35706	234	2	7	12	18	67	39	22	22	23.625	1.2		
22	35707	235	15	6	6	6	18	9	12	15	10.875	.7		
23	35708	236	15	12	22	22	56	18	22	80	30.875	1.2		
24	35709	237	132	87	27	67	111	179	48	39	83.750	1.0		
25	35710	238	27	22	22	32	48	67	27	32	34.625	1.4		
26	35711	239	94	32	56	18	12	18	32	9	33.875	1.3		
27	35712	240	12	22	22	12	12	6	12	12	15.000	.8		
28	35713	241	32	18	6	9	12	18	7	9	13.875	.8		
29	35714	242	6	7	7	12	27	15	9	12	11.875	.7		
30	35715	243	9	9	18	15	7	6	6	3	9.375	.6		
31	35716	244	3	3	5	56	32	32	27	12	21.250	1.1		

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

MONTHLY AVERAGE 194.1  
MONTHLY SMOOTHED 192.5

169.6  
149.6

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	KP										AVG. KP
			1	2	3	4	5	6	7	8	SUM KP		
1	35717	245	2.667	2.000	2.667	3.667	3.000	2.333	3.000	2.333	21.667	2.708	
2	35718	246	5.000	7.667	8.000	6.667	4.667	4.000	4.000	3.000	43.000	5.375	
3	35719	247	5.667	6.333	6.000	5.667	5.000	3.000	2.333	2.000	36.000	4.500	
4	35720	248	2.000	2.000	3.667	3.000	2.667	1.000	1.667	1.000	17.000	2.125	
5	35721	249	3.000	2.667	2.000	1.667	1.000	1.000	1.000	1.667	14.000	1.750	
6	35722	250	3.333	3.667	3.667	4.667	4.333	3.333	3.333	3.333	29.667	3.708	
7	35723	251	3.000	2.333	2.667	2.000	2.000	2.000	1.333	1.333	16.667	2.083	
8	35724	252	1.000	1.000	3.667	5.333	8.333	8.000	6.000	3.333	36.667	4.583	
9	35725	253	2.667	2.667	4.333	4.333	4.333	2.667	4.000	3.333	28.333	3.542	
10	35726	254	3.000	2.333	2.000	1.667	2.667	2.667	2.333	1.333	18.000	2.250	
11	35727	255	1.667	3.000	2.333	2.667	1.667	1.667	1.667	1.667	16.333	2.042	
12	35728	256	1.667	1.000	.667	1.000	1.333	1.333	3.000	4.667	14.667	1.833	
13	35729	257	4.333	5.333	2.667	2.000	1.333	2.667	2.000	1.667	22.000	2.750	
14	35730	258	.333	1.000	1.000	.667	.667	1.000	.667	1.333	6.667	.833	
15	35731	259	2.333	1.667	.333	1.333	.667	.667	.667	3.333	11.000	1.375	
16	35732	260	2.333	1.333	1.333	1.000	2.667	3.000	2.000	2.667	16.333	2.042	
17	35733	261	1.000	2.000	1.333	1.667	1.667	1.333	1.667	1.000	11.667	1.458	
18	35734	262	1.333	.000	.333	.667	.333	.333	.333	.333	3.667	.458	
19	35735	263	.667	.333	.667	.667	.333	.333	.667	1.333	5.000	.625	
20	35736	264	2.000	4.333	3.667	4.000	4.667	5.333	3.667	4.000	31.667	3.958	
21	35737	265	5.000	6.000	5.000	4.333	3.667	3.667	3.000	2.667	33.333	4.167	
22	35738	266	3.667	5.000	5.000	5.333	3.667	4.667	4.333	3.333	34.000	4.250	
23	35739	267	3.667	2.667	3.667	3.333	2.333	2.000	1.000	1.333	20.000	2.500	
24	35740	268	1.667	1.667	1.000	2.000	2.667	.333	2.333	1.667	13.333	1.667	
25	35741	269	3.667	2.333	.667	.667	2.333	2.333	2.000	3.000	17.000	2.125	
26	35742	270	3.000	3.667	3.333	3.333	3.333	1.667	2.000	.333	18.667	2.333	
27	35743	271	.333	.667	1.667	2.333	2.333	2.333	2.000	1.667	13.333	1.667	
28	35744	272	2.333	3.667	2.333	2.333	2.333	1.333	2.333	1.667	17.667	2.208	
29	35745	273	1.333	.667	.667	.667	1.667	1.000	2.000	1.667	9.667	1.208	
30	35746	274	2.667	2.667	2.333	2.000	2.000	1.000	.667	2.000	14.000	1.750	

SEPTEMBER 1956

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	APG	MAGNETIC CHARACTER
1	35717	245	12	7	12	22	15	9	15	9	12.625	.8	
2	35718	246	48	179	207	111	39	27	27	15	81.625	1.9	
3	35719	247	67	94	80	67	48	15	9	7	48.375	1.5	
4	35720	248	7	7	22	15	12	4	6	4	9.625	.4	
5	35721	249	15	12	7	6	4	4	4	6	7.250	.3	
6	35722	250	18	22	22	39	32	18	18	18	23.375	1.0	
7	35723	251	15	9	12	7	7	7	5	5	8.375	.4	
8	35724	252	4	4	22	56	236	207	80	18	78.375	1.7	
9	35725	253	12	12	32	32	32	12	27	18	22.125	1.1	
10	35726	254	15	9	7	6	12	12	9	5	9.375	.5	
11	35727	255	6	15	9	12	6	6	6	6	8.250	.4	
12	35728	256	6	4	3	4	5	5	15	39	10.125	.6	
13	35729	257	32	56	12	7	5	12	7	6	17.125	.8	
14	35730	258	2	4	4	3	3	4	3	5	3.500	.1	
15	35731	259	9	6	2	5	3	3	3	18	6.125	.3	
16	35732	260	9	5	5	4	12	15	7	12	8.625	.6	
17	35733	261	4	7	5	6	6	5	6	4	5.375	.1	
18	35734	262	5	0	2	3	2	2	2	2	2.250	.0	
19	35735	263	3	2	3	3	2	2	3	5	2.875	.0	
20	35736	264	7	32	22	27	39	56	22	27	29.000	1.4	
21	35737	265	48	80	44	32	22	22	15	12	34.875	1.3	
22	35738	266	22	48	44	56	22	39	32	9	34.500	1.4	
23	35739	267	22	12	22	18	9	7	4	5	12.375	.6	
24	35740	268	6	6	4	7	12	2	9	6	6.500	.4	
25	35741	269	22	9	3	3	9	9	7	15	9.625	.6	
26	35742	270	15	22	18	18	6	7	5	2	11.625	.5	
27	35743	271	2	3	6	9	9	7	9	6	6.375	.4	
28	35744	272	9	22	9	9	5	9	6	6	9.375	.4	
29	35745	273	5	3	3	3	6	4	7	6	4.625	.2	
30	35746	274	12	12	9	7	4	3	3	7	7.125	.3	



SEPTEMBER 1956

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	I-----SOLAR FLUX(10.7CM OTTAWA)-----I	-----RUNNING MEANS-----I	-----RELATIVE ZURICH SUNSPOT NUMBER-----I	-----RUNNING MEANS-----I				
DAY	YEAR	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY				
1	35717 245	191.0	196.4	181.4	174.4	168	173.8	149.5	141.6
2	35718 246	179.0	196.2	181.5	174.6	158	174.1	149.6	145.3
3	35719 247	181.0	195.7	181.6	175.2	136	173.6	148.8	145.6
4	35720 248	182.0	195.1	181.4	175.4	130	173.2	147.2	145.7
5	35721 249	181.0	194.3	181.4	175.7	142	173.3	146.3	145.9
6	35722 250	213.0	195.0	182.1	176.4	158	174.1	146.3	146.3
7	35723 251	209.0	196.0	183.0	176.9	165	175.0	146.5	146.8
8	35724 252	203.0	196.8	183.9	177.2	157	175.3	146.7	146.6
9	35725 253	217.0	198.2	185.2	177.5	146	175.2	147.6	146.4
10	35726 254	217.0	199.7	186.5	177.9	136	175.0	148.9	146.1
11	35727 255	237.0	202.2	188.3	178.6	170	176.0	150.8	146.4
12	35728 256	247.0	205.1	190.2	179.5	208	178.4	153.4	147.2
13	35729 257	261.0	208.4	192.1	180.6	244	182.6	156.4	148.7
14	35730 258	247.0	210.8	193.6	181.7	251	185.5	159.5	150.5
15	35731 259	234.0	212.5	194.6	182.9	254	187.8	162.1	152.8
16	35732 260	236.0	213.8	195.8	184.2	244	188.8	165.1	154.9
17	35733 261	218.0	213.4	196.7	185.2	234	189.2	167.7	156.3
18	35734 262	210.0	213.3	197.7	185.9	213	189.3	169.8	157.2
19	35735 263	197.0	212.4	198.4	186.5	214	188.3	171.6	157.9
20	35736 264	175.0	211.5	199.1	187.0	223	188.0	173.9	158.6
21	35737 265	189.0	210.3	199.7	187.4	202	189.8	175.6	159.2
22	35738 266	179.0	208.8	200.0	187.7	153	189.9	176.0	159.4
23	35739 267	173.0	207.3	200.1	188.0	139	186.5	176.0	159.3
24	35740 268	175.0	206.1	200.1	188.2	125	183.9	175.7	159.1
25	35741 269	176.0	204.7	200.1	188.4	132	181.3	175.4	159.0
26	35742 270	173.0	203.8	200.1	188.5	136	178.5	175.2	158.7
27	35743 271	167.0	202.9	199.7	188.4	131	176.6	174.9	158.3
28	35744 272	166.0	202.4	199.4	188.4	127	175.1	174.4	158.1
29	35745 273	172.0	202.1	199.2	188.4	143	174.6	174.3	157.9
30	35746 274	174.0	201.9	198.8	188.3	154	175.4	174.5	157.7

MONTHLY AVERAGE 199.7  
MONTHLY SMOOTHED 195.0

173.2  
151.5

GEOMAGNETIC PLANETARY INDICES

67

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY			MOD.			JULIAN			DAY			MOD.			JULIAN			MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
1	35747	275	9	15	6	18	22	15	7	22	14.250	.8								
2	35748	276	39	15	27	27	39	16	32	27	28.000	1.2								
3	35749	277	18	22	18	18	27	27	27	22	22.375	1.0								
4	35750	278	15	6	9	12	7	12	9	12	10.250	.7								
5	35751	279	5	5	56	27	6	7	18	9	16.625	.8								
6	35752	280	13	15	12	22	32	15	12	15	17.625	.9								
7	35753	281	15	12	12	15	12	22	22	12	15.250	.8								
8	35754	282	18	15	18	12	6	7	27	18	15.125	.8								
9	35755	283	15	9	12	12	15	9	15	9	12.000	.6								
10	35756	284	12	4	4	4	5	6	5	6	5.750	.2								
11	35757	285	6	12	7	7	7	3	4	5	6.375	.2								
12	35758	286	2	3	3	6	4	4	5	7	4.250	.2								
13	35759	287	6	3	3	4	2	2	2	3	3.125	.1								
14	35760	288	4	3	4	2	2	0	3	2	2.625	.0								
15	35761	289	2	0	2	2	2	3	4	3	2.250	.0								
16	35762	290	2	5	12	4	3	2	3	2	4.125	.1								
17	35763	291	4	4	6	5	4	3	3	5	4.250	.2								
18	35764	292	5	9	4	5	2	2	3	3	4.125	.0								
19	35765	293	5	7	6	7	7	5	4	4	5.625	.2								
20	35766	294	3	32	56	32	39	48	32	48	36.250	1.4								
21	35767	295	39	48	32	32	32	22	22	18	30.625	1.3								
22	35768	296	22	27	7	2	15	7	9	7	12.000	.7								
23	35769	297	27	15	15	12	15	9	15	18	15.750	.8								
24	35770	298	6	18	7	5	3	3	9	2	6.625	.2								
25	35771	299	2	6	5	5	2	0	4	5	3.625	.1								
26	35772	300	15	15	22	7	22	39	111	94	40.625	1.6								
27	35773	301	67	67	32	22	22	12	18	18	32.250	1.3								
28	35774	302	15	22	39	32	32	6	9	9	20.500	1.0								
29	35775	303	12	7	6	15	9	9	12	6	9.500	.7								
30	35776	304	4	5	12	12	18	18	5	3	7.625	.6								
31	35777	305	3	0	4	15	9	7	5	15	7.500	.6								

OCTOBER 1956

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1-----SOLAR FLUX(10.7CM OTTATA)-----1	170	176.9	175.0	157.1
DAY	YEAR	1	DAILY 27-DAY 54-DAY 81-DAY	DAILY 27-DAY 54-DAY 81-DAY	DAILY 27-DAY 54-DAY 81-DAY	DAILY 27-DAY 54-DAY 81-DAY	DAILY 27-DAY 54-DAY 81-DAY
1	35747	275	192.0 202.2 198.7	188.3	170	176.9	175.0
2	35748	276	203.0 203.0 198.6	188.6	183	178.4	175.8
3	35749	277	223.0 203.4 199.2	189.2	190	179.6	176.8
4	35750	278	220.0 203.8 199.9	189.9	187	180.4	177.7
5	35751	279	217.0 204.3 200.6	190.7	180	181.2	178.3
6	35752	280	209.0 204.0 201.1	191.5	145	181.2	178.2
7	35753	281	215.0 204.0 201.9	192.3	145	181.5	178.3
8	35754	282	213.0 203.1 202.6	193.2	170	181.5	178.8
9	35755	283	213.0 201.8 203.5	194.0	180	180.5	179.5
10	35756	284	210.0 199.9 204.1	194.7	176	178.0	180.3
11	35757	285	216.0 198.8 204.8	195.3	166	174.8	180.2
12	35758	286	208.0 197.8 205.2	195.7	175	171.9	179.9
13	35759	287	202.0 196.5 205.1	196.0	154	168.6	178.7
14	35760	288	187.0 195.3 204.4	196.3	134	164.9	177.0
15	35761	289	169.0 193.8 203.6	196.4	121	161.4	174.9
16	35762	290	164.0 192.6 202.5	196.4	110	157.6	173.0
17	35763	291	163.0 191.4 201.4	196.5	90	152.7	170.3
18	35764	292	163.0 190.4 200.4	196.6	115	149.4	159.4
19	35765	293	186.0 190.7 199.8	196.9	134	148.7	168.8
20	35766	294	184.0 191.1 199.2	197.1	145	149.0	167.7
21	35767	295	187.0 191.6 198.9	197.2	149	149.9	166.9
22	35768	296	192.0 192.1 198.4	197.4	160	150.9	166.1
23	35769	297	185.0 192.6 198.2	197.6	153	151.5	165.0
24	35770	298	192.0 193.5 198.2	197.7	163	152.7	164.7
25	35771	299	195.0 194.6 198.5	197.8	165	154.1	164.6
26	35772	300	200.0 195.6 198.9	198.0	152	154.4	164.5
27	35773	301	214.0 197.1 199.5	198.2	140	153.8	164.6
28	35774	302	220.0 196.1 200.2	198.5	150	153.0	164.9
29	35775	303	230.0 199.1 201.1	198.8	168	152.5	165.4
30	35776	304	233.0 199.5 201.5	199.3	178	152.0	165.8
31	35777	305	235.0 200.1 201.9	200.0	167	151.3	165.8

MONTHLY AVERAGE 201.3  
MONTHLY SMOOTHED 198.0

155.3  
155.8

## GEOMAGNETIC PLANETARY INDICES:

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35778	306	3.667	3.333	2.333	.667	3.000	3.333	2.000	2.333	20.667	2.583
2	35779	307	4.333	1.667	1.667	2.667	2.333	3.000	2.333	3.000	19.000	2.375
3	35780	308	4.333	3.667	3.333	4.000	3.000	2.333	2.667	2.000	25.333	3.167
4	35781	309	3.333	2.667	3.000	2.333	1.667	2.333	1.667	2.000	19.000	2.375
5	35782	310	2.000	1.333	1.333	1.333	.333	1.000	1.333	2.333	11.000	1.375
6	35783	311	1.333	3.333	2.667	2.667	2.333	2.667	1.667	2.667	20.333	2.542
7	35784	312	2.667	2.333	1.333	2.333	2.000	1.000	1.667	1.333	14.667	1.833
8	35785	313	1.333	1.667	2.000	2.000	2.000	1.333	1.333	.667	12.333	1.542
9	35786	314	1.333	1.333	1.333	2.000	2.000	2.667	5.000	4.333	20.000	2.500
10	35787	315	6.000	5.667	5.667	4.333	5.000	5.000	5.333	6.333	43.333	5.417
11	35788	316	6.667	6.667	6.333	5.333	5.333	3.333	4.667	6.667	44.000	5.500
12	35789	317	6.000	3.667	5.000	4.333	5.667	5.667	4.333	4.333	39.000	4.875
13	35790	318	5.000	3.667	1.333	2.667	3.333	2.000	1.000	2.333	21.333	2.667
14	35791	319	4.667	5.333	5.667	4.333	3.667	4.000	7.000	6.333	41.000	5.125
15	35792	320	6.667	6.333	7.667	7.333	6.000	3.667	3.667	3.667	45.000	5.625
16	35793	321	6.333	6.667	6.000	4.333	3.000	2.667	4.333	2.667	36.000	4.500
17	35794	322	2.333	2.333	3.000	3.000	3.333	3.667	3.000	3.000	23.667	2.958
18	35795	323	4.667	4.000	4.667	2.333	3.000	1.667	1.667	1.000	23.000	2.675
19	35796	324	.333	.667	1.333	1.667	2.000	1.667	1.000	.667	9.333	1.167
20	35797	325	.667	.333	2.000	3.000	3.667	3.667	3.333	2.417	19.333	2.417
21	35798	326	4.000	4.000	4.667	4.000	3.667	2.667	3.333	4.333	30.667	3.833
22	35799	327	4.000	3.333	2.667	3.000	4.667	3.667	4.333	5.667	31.333	3.917
23	35800	328	5.000	4.000	3.667	4.667	4.667	3.667	2.667	1.667	30.000	3.750
24	35801	329	1.667	2.000	1.000	2.667	3.333	3.333	3.000	2.667	19.667	2.458
25	35802	330	2.333	1.667	3.000	3.000	7.000	4.000	3.333	2.667	27.000	3.375
26	35803	331	3.667	1.667	1.000	.667	.667	1.000	.667	.667	10.000	1.250
27	35804	332	1.000	2.000	1.667	1.000	.333	1.667	3.667	5.000	16.333	2.042
28	35805	333	5.333	3.333	3.333	3.000	2.000	2.000	2.333	2.000	23.333	2.917
29	35806	334	2.333	2.333	2.333	2.333	1.667	2.667	3.333	3.667	20.667	2.583
30	35807	335	3.000	3.667	2.333	3.333	2.000	2.333	2.000	2.667	21.333	2.667

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP			AP			AP			AP			MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	AP	AP	AP	
1	35778	306	22	18	9	3	15	18	7	9	12.625	.8			
2	35779	307	9	6	6	12	9	15	9	15	10.125	.6			
3	35780	308	32	22	18	27	15	9	12	7	17.750	1.0			
4	35781	309	18	12	15	9	6	9	6	7	10.250	.4			
5	35782	310	7	5	5	5	2	4	5	9	5.250	.2			
6	35783	311	5	18	12	12	9	12	12	12	11.500	.7			
7	35784	312	12	9	5	9	7	4	6	5	7.125	.2			
8	35785	313	5	6	7	7	7	5	5	3	5.625	.1			
9	35786	314	5	5	5	7	7	12	48	32	15.125	.9			
10	35787	315	80	67	67	32	48	48	56	94	61.500	1.8			
11	35788	316	111	111	94	56	32	19	39	111	71.500	1.8			
12	35789	317	80	22	48	32	67	67	32	32	47.500	1.6			
13	35790	318	48	22	5	12	18	7	4	9	15.625	.8			
14	35791	319	39	56	67	32	22	27	132	94	58.625	1.6			
15	35792	320	111	94	179	154	80	22	22	22	85.500	1.8			
16	35793	321	94	111	80	32	15	12	32	12	46.500	1.5			
17	35794	322	9	9	15	15	18	22	15	15	14.750	1.0			
18	35795	323	39	27	39	9	15	6	6	4	10.125	.8			
19	35796	324	2	3	5	6	7	6	4	3	4.500	.1			
20	35797	325	3	2	7	15	22	22	10	12	12.625	.8			
21	35798	326	27	27	39	27	22	12	18	32	25.500	1.2			
22	35799	327	27	18	12	15	39	22	32	67	29.000	1.4			
23	35800	328	48	27	22	39	39	22	12	6	26.875	1.1			
24	35801	329	6	7	4	12	18	13	15	12	11.500	.8			
25	35802	330	9	6	15	15	132	27	18	12	29.250	1.4			
26	35803	331	22	6	4	3	3	4	3	3	6.000	.2			
27	35804	332	4	7	6	4	2	6	22	48	12.375	.7			
28	35805	333	56	18	18	15	7	7	9	7	17.125	1.0			
29	35806	334	9	9	9	9	6	12	10	22	11.750	.7			
30	35807	335	15	22	9	18	7	9	7	12	12.375	.6			

NOVEMBER 1956

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1
DAY	YEAR	DAILY 27-DAY	81-DAY	DAILY 27-DAY	54-DAY 81-DAY
1	35778 306	1 243.0 201.0	202.7 200.7	1 157 150.4	165.8 169.0
2	35779 307	1 227.0 201.7	202.9 201.3	1 175 151.6	166.4 169.3
3	35780 308	1 227.0 202.1	203.1 202.0	1 187 153.1	167.3 169.9
4	35781 309	1 253.0 203.6	203.4 203.0	1 190 154.1	167.8 170.6
5	35782 310	1 276.0 206.0	203.9 204.3	1 220 155.6	168.1 171.5
6	35783 311	1 304.0 209.4	204.7 205.9	1 274 159.3	168.6 173.3
7	35784 312	1 305.0 212.7	205.8 207.4	1 308 164.5	169.7 175.0
8	35785 313	1 322.0 217.0	207.4 209.1	1 312 169.6	170.7 176.4
9	35786 314	1 308.0 220.9	208.7 210.4	1 260 173.5	171.0 177.0
10	35787 315	1 287.0 224.6	210.0 211.1	1 236 177.3	171.1 177.1
11	35788 316	1 286.0 228.9	211.4 212.0	1 243 181.8	171.6 177.2
12	35789 317	1 296.0 233.8	213.2 212.9	1 262 187.4	172.5 177.8
13	35790 318	1 281.0 238.2	214.8 213.7	1 230 192.6	172.6 177.8
14	35791 319	1 272.0 242.2	216.3 214.3	1 215 196.3	172.9 178.5
15	35792 320	1 254.0 244.7	217.7 214.8	1 230 199.9	174.3 179.2
16	35793 321	1 260.0 247.6	219.3 215.3	1 236 203.3	176.1 179.6
17	35794 322	1 258.0 250.2	220.9 216.0	1 231 206.3	178.1 180.0
18	35795 323	1 231.0 251.6	221.9 216.2	1 180 207.0	179.0 179.8
19	35796 324	1 225.0 253.1	222.9 216.5	1 178 208.0	179.7 179.3
20	35797 325	1 216.0 254.1	223.8 216.8	1 180 208.6	180.6 179.3
21	35798 326	1 207.0 254.5	224.6 217.2	1 183 209.3	181.7 179.5
22	35799 327	1 233.0 255.7	225.7 217.8	1 154 209.3	181.9 179.4
23	35800 328	1 205.0 255.4	226.3 218.1	1 139 209.3	181.5 179.5
24	35801 329	1 201.0 254.7	226.4 218.4	1 120 208.1	180.6 179.3
25	35802 330	1 216.0 254.2	226.7 218.8	1 160 207.9	180.2 179.6
26	35803 331	1 217.0 253.6	226.6 218.0	1 160 207.2	179.6 179.6
27	35804 332	1 207.0 252.6	226.3 218.8	1 125 205.6	178.5 179.1
28	35805 333	1 220.0 251.7	226.4 219.0	1 135 204.8	177.6 179.0
29	35806 334	1 221.0 251.5	226.6 219.1	1 154 204.0	177.8 178.9
30	35807 335	1 241.0 252.0	227.1 219.4	1 198 204.4	178.8 179.7

MONTHLY AVERAGE 250.0  
MONTHLY SMOOTHED 201.4

201.3  
159.6

# GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

73



DECEMBER 1954

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY YEAR	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
		AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	
1	35808 336	6	6	7	7	9	9	12	12	9	9	8.000		.4
2	35809 337	32	9	7	18	12	15	15	15	9	9	14.625		.9
3	35810 338	12	9	12	18	15	9	15	9	15	7	12.125		.6
4	35811 339	18	15	9	7	9	9	9	9	7	7	10.375		.5
5	35812 340	18	12	7	5	7	15	5	5	3	3	9.000		.5
6	35813 341	4	12	7	5	12	15	12	12	27	27	11.750		.8
7	35814 342	9	12	9	7	9	15	6	6	9	9	9.500		.6
8	35815 343	7	9	22	22	15	4	9	9	6	6	11.750		.6
9	35816 344	4	3	7	6	7	6	6	6	7	7	5.750		.3
10	35817 345	22	48	22	32	27	15	9	9	27	27	25.250		1.1
11	35818 346	7	5	3	3	4	3	6	6	4	4	4.375		.1
12	35819 347	0	0	5	7	9	18	18	18	27	27	10.500		.9
13	35820 348	18	18	32	18	27	18	9	9	9	9	18.625		1.1
14	35821 349	16	15	7	12	5	6	9	9	6	6	9.750		.6
15	35822 350	4	5	4	5	5	4	2	2	2	2	3.875		.1
16	35823 351	3	5	5	4	3	2	2	2	0	0	3.000		.0
17	35824 352	2	5	6	5	3	3	0	0	2	2	3.250		.0
18	35825 353	2	4	6	6	15	7	5	5	2	2	5.875		.2
19	35826 354	0	0	6	5	4	5	4	4	12	12	4.500		.4
20	35827 355	9	6	5	9	5	4	4	4	4	4	5.750		.2
21	35828 356	5	5	6	6	4	3	4	4	5	5	4.625		.1
22	35829 357	4	7	6	12	15	5	6	6	2	2	7.125		.3
23	35830 358	0	2	3	9	4	3	4	4	7	7	4.000		.1
24	35831 359	18	18	9	7	5	4	7	7	4	4	9.000		.5
25	35832 360	6	6	15	39	32	18	18	18	32	32	20.750		1.2
26	35833 361	22	39	32	18	6	4	3	3	2	2	15.750		.7
27	35834 362	0	2	5	6	5	27	32	32	22	22	12.375		1.0
28	35835 363	27	18	39	15	27	22	18	12	12	12	22.250		1.2
29	35836 364	32	15	9	15	12	9	12	9	9	9	14.125		.8
30	35837 365	7	6	39	32	15	9	7	7	9	9	15.500		.8
31	35838 366	6	4	3	9	12	3	4	4	4	4	5.625		.2

DECEMBER 1956

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS---	1---RUNNING MEANS---	1---RUNNING MEANS---					
DAY	YEAR	1	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY				
1	35808	336	1	226.0	251.1	227.4	219.3	1	163	203.1	178.6	179.6
2	35809	337	1	243.0	249.9	227.9	219.2	1	177	201.6	176.6	179.2
3	35810	338	1	254.0	248.0	228.7	219.1	1	189	198.4	178.8	178.5
4	35811	339	1	255.0	246.1	229.4	219.2	1	200	194.4	179.5	177.9
5	35812	340	1	265.0	244.0	230.5	219.6	1	213	190.7	180.2	177.4
6	35813	341	1	259.0	242.2	231.6	219.9	1	185	188.0	180.7	176.7
7	35814	342	1	255.0	241.0	232.8	220.3	1	173	185.6	181.5	175.9
8	35815	343	1	249.0	239.7	234.3	220.8	1	157	182.4	182.1	175.2
9	35816	344	1	261.0	238.4	236.1	221.6	1	185	179.6	183.5	174.9
10	35817	345	1	274.0	238.1	238.1	222.6	1	216	179.1	185.9	174.8
11	35818	346	1	276.0	238.3	240.2	223.6	1	229	179.6	188.0	175.1
12	35819	347	1	268.0	238.8	241.8	224.7	1	212	178.9	189.4	175.9
13	35820	348	1	253.0	238.5	243.0	225.7	1	202	177.7	190.5	176.6
14	35821	349	1	254.0	238.4	244.3	226.7	1	210	176.9	191.6	177.7
15	35822	350	1	258.0	239.4	245.5	227.7	1	198	177.6	192.3	178.5
16	35823	351	1	253.0	240.4	246.8	228.7	1	186	177.9	192.9	179.1
17	35824	352	1	258.0	241.9	248.0	229.8	1	190	178.2	193.4	179.8
18	35825	353	1	234.0	242.9	248.7	230.7	1	156	177.2	193.2	180.2
19	35826	354	1	240.0	243.1	249.4	231.5	1	151	177.1	193.2	180.3
20	35827	355	1	234.0	244.2	249.8	232.2	1	143	177.3	193.3	180.1
21	35828	356	1	240.0	245.9	250.3	232.9	1	173	179.3	193.7	180.1
22	35829	357	1	258.0	247.4	250.8	233.6	1	200	180.7	194.3	180.4
23	35830	358	1	262.0	249.1	251.4	234.1	1	219	182.9	195.1	180.7
24	35831	359	1	256.0	250.9	251.7	234.5	1	219	186.4	196.0	181.1
25	35832	360	1	260.0	252.4	252.1	235.0	1	229	189.9	197.4	181.7
26	35833	361	1	253.0	254.0	252.7	235.7	1	229	192.7	198.4	182.8
27	35834	362	1	276.0	255.3	253.6	236.5	1	215	193.3	198.9	183.6
28	35835	363	1	229.0	255.3	253.2	236.7	1	202	194.7	198.9	184.0
29	35836	364	1	238.0	255.1	252.5	237.0	1	187	195.1	198.3	184.1
30	35837	365	1	248.0	254.9	251.4	237.4	1	171	194.4	196.4	184.0
31	35838	366	1	258.0	255.0	250.6	238.0	1	177	193.6	194.0	184.2

MONTHLY AVERAGE 253.7  
MONTHLY SMOOTHED 207.4

192.1  
164.3

# GEOMAGNETIC PLANETARY INDICES

# QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	YEAR	KP								SUM KP	AVG. KP
			1	2	3	4	5	6	7	8		
1	35839	1	.333	.667	.667	3.667	3.000	2.000	1.667	.667	12.667	1.593
2	35840	2	2.333	1.667	2.333	5.000	2.667	2.333	5.333	5.000	26.667	3.333
3	35841	3	3.667	2.667	2.333	3.000	2.333	1.333	1.667	1.667	18.333	2.292
4	35842	4	1.333	1.667	2.000	2.000	.667	1.000	.667	1.000	10.333	1.292
5	35843	5	1.000	1.000	1.000	1.667	1.000	1.000	1.667	.667	9.000	1.125
6	35844	6	.000	2.667	1.667	2.333	2.000	1.333	1.667	2.000	13.667	1.708
7	35845	7	2.000	2.000	2.000	2.667	2.667	2.000	1.333	.333	15.000	1.875
8	35846	8	2.667	3.333	2.000	3.667	3.333	2.667	2.667	3.000	23.333	2.917
9	35847	9	2.000	2.000	1.667	1.667	3.333	3.667	3.000	3.667	21.000	2.625
10	35848	10	3.333	4.333	5.000	4.000	4.000	4.000	4.333	4.667	33.667	4.208
11	35849	11	4.000	1.667	4.000	3.667	3.667	1.000	1.667	2.000	21.667	2.708
12	35850	12	2.333	4.000	2.000	1.333	.333	.333	.333	1.333	12.000	1.500
13	35851	13	2.000	.667	1.333	1.667	1.000	1.000	.667	1.333	9.667	1.208
14	35852	14	.333	.333	1.667	1.667	1.667	1.000	.667	.333	7.667	.958
15	35853	15	1.333	1.000	1.333	1.667	2.667	2.333	2.333	2.000	14.667	1.833
16	35854	16	2.333	2.000	2.000	2.000	3.000	1.333	1.333	1.333	15.333	1.917
17	35855	17	2.000	1.333	1.333	2.000	2.000	1.667	1.667	1.333	13.333	1.667
18	35856	18	1.000	.333	1.333	1.000	1.000	.667	.333	.000	5.667	.708
19	35857	19	.000	.333	1.667	2.333	2.333	3.333	2.000	1.333	13.333	1.667
20	35858	20	1.667	1.333	.667	1.000	1.333	1.333	.667	.333	8.333	1.042
21	35859	21	1.667	3.333	3.667	3.667	4.667	5.667	7.667	8.667	39.000	4.875
22	35860	22	8.333	6.667	6.333	4.667	4.000	4.000	3.000	2.333	39.333	4.917
23	35861	23	3.000	3.667	4.333	5.000	4.000	3.667	4.000	3.333	31.000	3.875
24	35862	24	4.000	4.667	1.667	2.667	3.333	2.667	5.333	5.000	29.333	3.667
25	35863	25	5.000	3.667	4.667	3.667	2.000	2.000	2.333	4.000	26.667	3.333
26	35864	26	2.333	3.000	2.667	3.333	2.667	2.667	1.667	3.000	21.333	2.667
27	35865	27	2.000	2.667	2.000	4.000	3.333	2.667	2.000	2.667	20.333	2.542
28	35866	28	.667	1.667	1.333	1.333	2.000	1.667	2.333	2.333	14.333	1.792
29	35867	29	1.333	2.333	2.000	2.667	5.000	5.000	4.333	4.000	26.667	3.333
30	35868	30	5.000	5.667	5.333	4.667	3.667	3.333	3.667	2.667	34.000	4.250
31	35869	31	2.000	3.000	2.667	2.667	2.667	3.000	2.667	2.667	21.333	2.667



JANUARY 1957

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MUD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	35839	1	1	269.0	255.1	249.6	238.7	1	160	191.6	191.2	184.0																					
2	35840	2	1	279.0	255.9	249.1	239.7	1	189	191.8	189.9	184.4																					
3	35841	3	1	278.0	256.7	248.9	240.8	1	211	193.2	189.4	185.4																					
4	35842	4	1	287.0	258.1	248.9	242.2	1	224	195.7	189.1	186.6																					
5	35843	5	1	290.0	259.2	248.8	243.8	1	226	197.2	188.4	188.1																					
6	35844	6	1	295.0	260.0	249.1	245.4	1	252	198.5	188.8	190.1																					
7	35845	7	1	268.0	259.7	249.0	246.7	1	224	198.3	189.0	191.4																					
8	35846	8	1	252.0	259.1	248.9	247.5	1	207	198.1	188.5	192.3																					
9	35847	9	1	236.0	258.5	248.5	248.2	1	166	196.8	187.2	192.6																					
10	35848	10	1	219.0	257.2	247.8	248.6	1	153	194.7	185.8	192.6																					
11	35849	11	1	218.0	255.7	247.5	248.9	1	151	193.0	185.3	192.5																					
12	35850	12	1	220.0	254.5	247.4	249.3	1	155	191.8	184.8	192.5																					
13	35851	13	1	209.0	252.7	247.3	249.5	1	134	189.7	184.0	192.2																					
14	35852	14	1	200.0	251.4	247.1	249.6	1	121	188.4	182.8	191.6																					
15	35853	15	1	193.0	249.7	246.4	249.5	1	86	186.0	181.6	190.8																					
16	35854	16	1	186.0	247.9	246.1	249.2	1	100	184.4	180.9	190.3																					
17	35855	17	1	196.0	246.0	246.0	248.9	1	112	182.2	180.7	189.9																					
18	35856	18	1	205.0	244.1	245.8	248.6	1	143	180.1	180.4	189.6																					
19	35857	19	1	218.0	242.4	245.8	248.4	1	170	178.3	180.6	189.5																					
20	35858	20	1	236.0	241.7	246.3	248.4	1	170	176.4	181.4	189.5																					
21	35859	21	1	226.0	240.4	246.4	248.2	1	177	174.5	182.2	189.7																					
22	35860	22	1	228.0	239.1	246.6	248.2	1	193	173.2	182.9	190.0																					
23	35861	23	1	235.0	237.6	246.4	248.3	1	191	172.3	182.8	190.0																					
24	35862	24	1	255.0	238.6	246.9	248.3	1	209	172.6	183.6	190.1																					
25	35863	25	1	234.0	238.4	246.8	247.8	1	184	172.4	183.8	189.7																					
26	35864	26	1	243.0	238.3	246.6	247.0	1	168	172.3	183.4	189.4																					
27	35865	27	1	239.0	237.6	246.3	246.2	1	150	171.3	182.5	186.4																					
28	35866	28	1	209.0	235.3	245.2	244.8	1	141	170.6	181.1	184.3																					
29	35867	29	1	199.0	232.4	244.1	243.5	1	132	168.5	180.1	182.8																					
30	35868	30	1	190.0	229.1	242.9	242.3	1	107	164.7	178.9	181.2																					
31	35869	31	1	176.0	225.1	241.6	241.0	1	106	160.4	178.0	179.5																					

MONTHLY AVERAGE 231.7  
MONTHLY SMOOTHED 213.0

165.0  
170.2

FEBRUARY 1957

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	KP	2	KP	3	KP	4	KP	5	KP	6	KP	7	KP	8	SUM KP	AVG. KP
1	35070	32	2.000	2.000	2.000	1.333	2.667	1.333	1.667	2.000	1.667	2.000	1.667	2.000	2.000	1.000	1.000	14.000	1.750
2	35071	33	.667	2.000	2.000	1.667	2.000	1.667	2.000	2.000	3.000	2.667	2.667	3.000	3.000	2.333	2.333	17.333	2.167
3	35072	34	1.667	2.333	2.333	.667	1.000	2.000	2.667	3.000	2.000	2.333	3.667	4.333	3.667	4.333	18.000	2.250	
4	35073	35	4.000	3.333	3.333	3.000	3.667	5.000	4.333	4.333	5.000	4.333	4.333	4.333	4.333	5.333	33.000	4.125	
5	35074	36	5.000	6.000	6.000	4.667	4.667	5.000	3.667	3.667	5.000	3.667	3.667	3.000	3.000	3.333	35.333	4.417	
6	35075	37	3.000	2.333	2.333	3.333	2.667	2.333	2.667	2.333	2.333	1.667	1.667	1.333	1.333	1.000	17.667	2.200	
7	35076	38	.000	.667	.667	1.667	2.667	1.000	1.667	1.667	1.000	1.333	1.333	1.667	1.667	2.000	15.000	1.875	
8	35077	39	1.667	2.000	2.000	2.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	2.000	2.000	14.333	1.792	
9	35078	40	2.000	3.000	3.000	1.667	1.667	1.000	1.333	1.000	1.333	2.000	1.333	2.000	2.000	.667	9.333	1.167	
10	35079	41	2.667	1.000	1.000	1.333	2.667	.333	.333	.333	.333	.333	.333	.333	.333	.667	9.333	1.167	
11	35080	42	1.667	2.333	2.333	1.667	2.333	2.333	2.333	2.333	2.333	2.000	2.000	2.000	2.000	1.667	17.667	2.208	
12	35081	43	2.333	4.333	4.333	3.333	2.667	2.000	2.667	2.000	2.000	2.000	2.000	2.667	2.667	2.667	23.000	2.875	
13	35082	44	3.333	4.667	4.667	3.667	5.000	5.333	5.000	5.333	5.333	6.333	5.000	6.333	6.333	.667	36.667	4.583	
14	35083	45	2.667	2.667	2.667	3.000	1.667	1.333	1.667	1.333	1.333	1.000	1.000	1.333	1.333	.667	14.333	1.792	
15	35084	46	.000	1.000	1.000	3.333	3.667	3.000	3.667	3.000	3.000	1.667	3.000	1.667	3.000	3.000	18.667	2.333	
16	35085	47	.333	1.667	1.667	2.333	2.000	2.000	2.000	2.000	2.000	2.667	2.667	2.333	2.333	2.000	15.333	1.917	
17	35086	48	2.000	1.333	1.333	1.000	2.667	3.333	2.667	3.333	3.333	2.667	2.667	2.667	2.667	3.000	18.667	2.333	
18	35087	49	3.333	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.667	3.000	3.667	3.667	3.667	25.667	3.203	
19	35088	50	3.667	3.000	3.000	4.000	3.333	2.667	3.333	2.667	3.333	4.667	3.333	4.667	4.333	4.333	29.000	3.625	
20	35089	51	4.333	4.000	4.000	3.000	2.667	3.333	2.667	3.333	3.333	2.000	2.000	2.000	2.000	3.333	25.000	3.125	
21	35090	52	4.000	4.000	4.000	5.333	4.333	4.000	4.333	4.000	4.000	4.667	4.667	3.667	3.667	5.000	35.000	4.375	
22	35091	53	4.333	4.333	4.333	4.000	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.000	3.000	3.333	30.000	3.750	
23	35092	54	3.667	3.667	3.667	3.000	2.000	2.667	2.000	2.667	2.667	2.667	2.667	2.667	2.667	6.000	30.000	4.750	
24	35093	55	7.000	7.000	7.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	38.000	7.750	
25	35094	56	3.000	2.667	2.667	2.333	3.333	1.667	1.667	1.667	1.667	1.000	1.000	.667	.667	.333	15.000	1.875	
26	35095	57	1.667	.333	.333	.667	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.333	8.000	1.000	
27	35096	58	2.667	3.000	3.000	1.333	1.333	.000	.667	.667	.667	1.333	.667	1.333	1.000	1.000	11.333	1.417	
28	35097	59	.667	.000	.000	.333	1.000	1.333	1.000	1.333	1.333	1.000	1.333	1.000	1.000	1.000	6.667	.833	

FEBRUARY 1957

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	
1	35070	32	7	7	5	12	5	6	7	7	4	4	6.625	6.625	.3
2	35071	33	3	7	6	7	15	12	15	9	9	9	9.250	9.250	.5
3	35072	34	6	9	3	4	4	7	9	22	32	32	11.500	11.500	.9
4	35073	35	27	18	15	22	48	32	32	32	56	56	31.250	31.250	1.4
5	35074	36	48	40	39	39	48	22	15	18	38.625	38.625	1.3	38.625	1.3
6	35075	37	15	9	18	12	9	6	5	4	9.750	9.750	.4	9.750	.4
7	35076	38	0	3	6	12	4	5	5	6	5.125	5.125	.2	5.125	.2
8	35077	39	6	7	12	6	6	6	6	7	7.000	7.000	.2	7.000	.2
9	35078	40	7	15	6	5	4	5	7	7	7.000	7.000	.2	7.000	.2
10	35079	41	12	4	5	12	2	2	2	3	5.250	5.250	.2	5.250	.2
11	35080	42	6	9	6	9	9	22	7	6	9.250	9.250	.7	9.250	.7
12	35081	43	9	12	18	12	7	7	22	12	14.875	14.875	.9	14.875	.9
13	35082	44	18	39	22	48	56	48	94	18	42.875	42.875	1.6	42.875	1.6
14	35083	45	12	12	15	6	5	4	5	3	7.750	7.750	.4	7.750	.4
15	35084	46	0	4	18	22	15	15	6	15	11.875	11.875	.6	11.875	.6
16	35085	47	2	6	9	7	7	12	9	7	7.375	7.375	.3	7.375	.3
17	35086	48	7	5	4	12	18	12	12	15	10.625	10.625	.7	10.625	.7
18	35087	49	10	15	15	15	15	15	22	22	17.125	17.125	1.0	17.125	1.0
19	35088	50	22	15	27	18	12	18	39	32	22.875	22.875	1.2	22.875	1.2
20	35089	51	32	27	15	12	18	9	7	18	17.250	17.250	.9	17.250	.9
21	35090	52	27	27	56	32	27	34	22	48	34.750	34.750	1.3	34.750	1.3
22	35091	53	32	32	27	22	22	22	15	18	23.750	23.750	1.0	23.750	1.0
23	35092	54	22	22	15	7	12	15	60	80	31.625	31.625	1.4	31.625	1.4
24	35093	55	132	132	60	80	39	12	12	7	61.750	61.750	1.5	61.750	1.5
25	35094	56	15	12	9	18	6	4	3	2	8.625	8.625	.3	8.625	.3
26	35095	57	6	2	3	4	4	4	4	5	4.000	4.000	.0	4.000	.0
27	35096	58	12	15	5	5	0	3	5	4	6.125	6.125	.1	6.125	.1
28	35097	59	3	0	2	4	5	5	4	4	3.375	3.375	.1	3.375	.1

DAILY SOLAR FLUX AND RELATIVE ZÜRICH SUNSPOT NUMBER ACTIVITY

MONTHLY AVERAGE	186.4
MONTHLY SMOOTHED	216.4



MARCH 1957

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MUD. DAY JULIAN OF YEAR	KP	1	2	KP	3	KP	4	KP	5	KP	6	KP	7	KP	8	SUM KP	AVG. KP
1	35898	60	.667	1.000	1.333	1.667	3.333	4.000	4.000	4.667	20.667	2.583						
2	35899	61	6.000	8.333	8.333	7.000	6.667	5.333	6.333	6.667	54.667	6.033						
3	35900	62	5.000	5.333	5.333	3.333	3.000	4.333	3.333	2.667	32.333	4.042						
4	35901	63	3.667	4.000	3.000	2.667	2.667	.667	1.667	3.000	21.333	2.667						
5	35902	64	3.667	3.333	3.000	2.667	3.333	2.667	3.333	3.333	25.333	3.167						
6	35903	65	4.333	2.000	2.333	3.000	3.333	3.333	2.333	1.667	22.333	2.792						
7	35904	66	1.667	2.333	1.333	2.333	2.333	3.333	2.333	2.333	18.000	2.250						
8	35905	67	4.000	1.667	3.000	2.000	3.000	2.000	3.000	4.000	22.667	2.833						
9	35906	68	3.333	4.333	3.333	2.000	2.333	3.333	3.000	3.000	24.667	3.083						
10	35907	69	4.000	4.333	4.667	6.667	7.000	6.000	6.333	5.667	44.667	5.583						
11	35908	70	4.000	2.667	2.333	1.000	1.333	1.333	1.000	1.000	15.333	1.917						
12	35909	71	2.000	3.333	3.000	2.667	1.667	1.000	.333	.000	14.000	1.750						
13	35910	72	.333	1.333	2.000	3.000	2.333	3.667	2.000	2.333	17.000	2.125						
14	35911	73	1.000	.667	1.333	2.333	.667	1.333	.333	.667	8.333	1.042						
15	35912	74	2.333	2.333	2.000	1.667	1.333	1.667	2.667	4.333	18.333	2.292						
16	35913	75	5.000	4.333	4.333	2.333	3.000	3.667	6.000	5.333	34.000	4.250						
17	35914	76	2.667	3.333	3.333	2.333	3.000	4.000	2.333	2.667	23.667	2.958						
18	35915	77	2.000	3.000	2.333	3.333	4.000	1.667	2.333	2.667	21.333	2.667						
19	35916	78	2.333	1.667	2.667	2.667	2.667	2.000	3.000	3.000	20.000	2.500						
20	35917	79	3.333	3.667	3.667	2.667	1.333	1.000	1.667	3.333	20.667	2.583						
21	35918	80	1.333	3.000	1.333	1.000	2.333	4.667	4.333	5.000	23.000	2.875						
22	35919	81	4.000	3.000	3.667	3.667	3.667	3.667	3.333	4.667	29.667	3.708						
23	35920	82	4.333	4.000	3.000	4.000	3.000	3.000	2.667	2.333	26.333	3.292						
24	35921	83	3.000	2.000	2.333	1.667	1.000	1.000	3.667	3.667	18.333	2.292						
25	35922	84	4.333	6.000	4.667	4.667	4.667	2.333	1.667	1.000	29.333	3.667						
26	35923	85	1.333	1.333	1.333	3.000	3.667	3.667	2.333	3.667	20.333	2.542						
27	35924	86	4.333	3.667	3.000	4.000	4.667	4.333	5.333	7.000	36.333	4.542						
28	35925	87	7.000	6.667	6.333	5.667	3.333	4.000	2.333	1.333	36.667	4.583						
29	35926	88	3.333	5.333	4.333	4.000	7.000	7.667	6.333	6.000	44.000	5.500						
30	35927	89	5.667	4.667	3.000	1.667	2.000	2.667	2.000	3.333	25.000	3.125						
31	35928	90	3.000	3.333	3.333	2.667	3.000	4.000	4.333	4.000	27.667	3.458						

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

83

MARCH 1957

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOJ. JULIAN DAY	DAY	YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
				187.0	186.0	201.8	221.2	1	155	132.4	141.7	160.7																						
1	35898	60	1	187.0	186.0	201.8	221.2	1	155	132.4	141.7	160.7																						
2	35899	61	1	183.0	185.9	200.2	220.0	1	164	134.7	140.6	159.9																						
3	35900	62	1	180.0	185.7	198.9	219.0	1	137	135.7	139.3	158.9																						
4	35901	63	1	178.0	185.5	197.8	218.0	1	128	136.3	138.6	158.0																						
5	35902	64	1	181.0	185.0	197.1	217.1	1	124	136.4	138.1	157.0																						
6	35903	65	1	181.0	184.7	196.4	216.2	1	147	136.7	138.0	156.3																						
7	35904	66	1	196.0	184.5	196.0	215.5	1	147	136.6	137.9	155.9																						
8	35905	67	1	197.0	184.8	195.8	214.3	1	144	136.1	138.1	155.3																						
9	35906	68	1	198.0	185.3	195.8	214.3	1	180	137.5	139.1	155.6																						
10	35907	69	1	200.0	185.6	195.9	213.8	1	186	139.3	141.0	156.0																						
11	35908	70	1	217.0	186.5	196.5	213.6	1	210	142.2	143.0	156.8																						
12	35909	71	1	210.0	187.7	196.7	213.2	1	224	146.0	145.1	157.5																						
13	35910	72	1	215.0	189.0	196.9	212.6	1	228	149.6	146.7	157.8																						
14	35911	73	1	201.0	189.4	196.6	211.9	1	175	150.9	146.8	157.3																						
15	35912	74	1	198.0	190.2	195.9	211.2	1	156	151.0	146.5	156.5																						
16	35913	75	1	201.0	190.9	195.4	210.4	1	146	151.2	145.9	155.5																						
17	35914	76	1	200.0	191.3	194.9	209.7	1	150	151.9	145.1	154.5																						
18	35915	77	1	197.0	192.2	194.2	208.7	1	147	152.7	144.3	153.7																						
19	35916	78	1	193.0	192.9	193.1	208.2	1	147	153.9	143.2	153.0																						
20	35917	79	1	195.0	193.3	192.3	207.7	1	122	153.8	142.0	152.2																						
21	35918	80	1	198.0	193.7	191.5	207.1	1	120	153.4	141.1	151.5																						
22	35919	81	1	202.0	193.6	190.8	206.4	1	137	153.6	140.9	151.0																						
23	35920	82	1	203.0	194.2	190.7	205.6	1	152	154.3	141.1	151.0																						
24	35921	83	1	196.0	194.6	190.6	204.6	1	145	154.5	141.4	150.4																						
25	35922	84	1	194.0	195.3	190.8	203.6	1	160	155.6	142.3	149.4																						
26	35923	85	1	193.0	195.6	191.1	202.4	1	170	156.7	143.5	149.1																						
27	35924	86	1	215.0	196.9	191.4	201.5	1	155	157.6	144.4	148.2																						
28	35925	87	1	198.0	197.3	191.6	200.3	1	152	157.5	144.9	147.0																						
29	35926	88	1	209.0	198.2	192.0	199.6	1	154	157.1	145.9	146.1																						
30	35927	89	1	195.0	198.8	192.3	198.9	1	172	158.4	147.1	145.7																						
31	35928	90	1	201.0	199.6	192.6	198.4	1	145	159.1	147.7	145.4																						

MONTHLY AVERAGE 197.4  
MONTHLY SMOOTHED 219.5

157.4  
174.3

# GEOMAGNETIC PLANETARY INDICES

# QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

85

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	HOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER											
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
1	35929	91	27	32	27	18	15	18	22	22	22	22	22	
2	35930	92	32	6	15	15	9	18	18	18	18	18	18	
3	35931	93	15	7	12	18	15	15	27	48	19	625	1.0	
4	35932	94	27	32	15	9	15	18	18	15	18	625	.8	
5	35933	95	27	18	18	56	67	48	12	48	36	750	1.3	
6	35934	96	67	48	39	39	12	6	4	3	27	250	1.1	
7	35935	97	4	5	6	4	2	3	2	4	3	750	.1	
8	35936	98	7	9	15	12	15	7	12	15	11	500	.6	
9	35937	99	12	32	27	15	32	22	22	39	25	125	1.1	
10	35938	100	56	111	111	67	39	56	18	7	58	125	1.5	
11	35939	101	15	9	6	39	39	9	7	15	17	375	.8	
12	35940	102	7	12	22	5	7	15	15	7	11	250	.8	
13	35941	103	18	12	22	7	12	6	3	5	10	625	.5	
14	35942	104	3	4	2	2	0	7	5	5	3	500	.1	
15	35943	105	2	7	7	15	18	7	18	67	17	625	1.0	
16	35944	106	32	27	9	9	12	18	12	18	17	125	1.0	
17	35945	107	18	27	18	32	56	27	80	179	54	625	1.6	
18	35946	108	94	22	15	22	9	67	56	48	41	625	1.5	
19	35947	109	94	94	111	32	39	48	39	27	60	500	1.6	
20	35948	110	27	27	15	7	7	12	12	9	14	500	.7	
21	35949	111	18	22	15	12	22	27	12	9	17	125	.9	
22	35950	112	4	2	2	2	3	6	7	4	3	750	.2	
23	35951	113	12	15	7	6	18	5	7	15	10	625	.6	
24	35952	114	27	15	12	22	39	39	22	39	26	375	1.1	
25	35953	115	15	6	6	7	12	15	9	6	9	500	.4	
26	35954	116	7	15	18	27	39	39	27	15	23	375	1.1	
27	35955	117	48	27	22	18	18	9	7	12	20	125	.9	
28	35956	118	6	6	9	12	22	39	22	27	17	875	.9	
29	35957	119	18	27	7	15	15	15	7	3	13	375	.8	
30	35958	120	7	22	7	7	7	15	15	18	12	250	.8	

APRIL 1957

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1957	219.0	201.0	193.0	198.4	140	159.7	148.0	145.3
1	35929	91	1	219.0	201.0	193.0	198.4	1	140	159.7	148.0
2	35930	92	1	203.0	201.9	193.3	196.2	1	152	159.9	148.3
3	35931	93	1	183.0	201.4	192.9	197.3	1	135	159.4	145.0
4	35932	94	1	193.0	201.1	193.0	197.6	1	160	160.0	145.4
5	35933	95	1	192.0	200.9	193.1	197.5	1	138	158.4	145.6
6	35934	96	1	169.0	199.8	192.7	197.2	1	108	155.6	145.9
7	35935	97	1	171.0	198.1	192.3	197.0	1	138	152.9	146.3
8	35936	98	1	195.0	197.5	192.6	197.0	1	160	150.5	146.9
9	35937	99	1	209.0	197.3	193.1	197.0	1	163	148.1	147.2
10	35938	100	1	193.0	197.0	193.2	196.7	1	150	147.2	146.9
11	35939	101	1	186.0	196.6	193.4	196.1	1	121	145.9	146.3
12	35940	102	1	180.0	195.8	193.4	195.5	1	114	144.7	145.5
13	35941	103	1	186.0	195.3	193.3	195.0	1	143	144.4	144.9
14	35942	104	1	183.0	194.7	193.5	194.4	1	122	143.5	144.1
15	35943	105	1	202.0	195.1	194.0	193.7	1	162	144.1	143.5
16	35944	106	1	209.0	195.6	194.4	193.4	1	181	146.3	143.4
17	35945	107	1	212.0	196.1	194.9	193.0	1	202	149.3	143.9
18	35946	108	1	203.0	196.2	194.9	192.6	1	205	151.8	144.5
19	35947	109	1	207.0	196.3	195.3	192.6	1	207	153.9	145.4
20	35948	110	1	209.0	196.8	195.7	192.7	1	208	156.2	146.3
21	35949	111	1	204.0	197.0	196.1	192.9	1	214	158.2	147.6
22	35950	112	1	217.0	197.9	196.8	193.4	1	218	160.0	149.0
23	35951	113	1	214.0	197.9	197.4	193.5	1	226	162.6	150.4
24	35952	114	1	215.0	198.5	197.9	193.9	1	248	166.1	152.0
25	35953	115	1	224.0	199.1	198.6	194.4	1	251	169.7	153.9
26	35954	116	1	233.0	200.5	199.6	195.0	1	223	171.6	155.2
27	35955	117	1	214.0	201.0	200.3	195.4	1	215	174.2	156.5
28	35956	118	1	199.0	200.2	200.6	195.4	1	221	177.2	157.8
29	35957	119	1	188.0	199.7	200.8	195.4	1	177	178.1	158.2
30	35958	120	1	177.0	199.4	200.4	195.1	1	155	178.9	158.3

MONTHLY AVERAGE 199.7  
MONTHLY SMOOTHED 225.7

175.2  
181.0

MAY 1957

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	35959	121	4.000	4.333	4.000	3.333	2.333	1.333	1.000	22.667	2.833
2	35960	122	2.000	3.000	3.333	3.000	2.667	1.000	2.000	18.000	2.250
3	35961	123	1.667	2.333	1.333	2.667	2.000	2.667	4.000	19.333	2.417
4	35962	124	1.333	1.333	2.333	2.333	2.667	2.667	2.667	18.000	2.250
5	35963	125	2.667	2.000	1.333	1.667	2.000	1.333	2.667	15.667	1.958
6	35964	126	2.667	2.667	2.333	4.333	3.000	1.667	2.333	20.667	2.583
7	35965	127	2.667	3.667	2.667	2.000	2.000	2.667	1.000	19.000	2.375
8	35966	128	.333	1.000	2.667	2.667	2.333	2.667	4.000	18.333	2.292
9	35967	129	3.667	4.667	4.667	3.667	3.333	3.000	1.667	27.667	3.458
10	35968	130	1.667	2.333	1.667	2.333	2.000	1.333	3.667	18.333	2.292
11	35969	131	2.333	2.000	1.000	1.333	1.667	1.333	3.333	15.000	1.875
12	35970	132	2.333	1.000	1.333	1.667	1.000	.333	2.000	11.333	1.417
13	35971	133	2.667	2.667	1.667	2.667	2.667	3.000	2.333	20.333	2.542
14	35972	134	1.667	2.333	1.000	1.333	1.000	2.000	1.333	12.000	1.500
15	35973	135	1.333	.333	.667	1.333	1.667	1.333	2.333	10.333	1.292
16	35974	136	.333	.333	.667	.667	.333	2.333	1.000	7.000	.875
17	35975	137	.667	2.000	1.667	1.667	1.000	2.000	2.000	14.000	1.750
18	35976	138	1.667	1.333	1.667	1.333	1.667	2.000	2.000	12.667	1.583
19	35977	139	1.667	.667	1.667	1.667	3.333	3.333	3.333	19.000	2.375
20	35978	140	3.000	3.667	3.333	3.000	3.333	3.667	3.333	25.667	3.208
21	35979	141	2.333	3.000	2.667	3.667	3.333	2.333	2.000	21.667	2.708
22	35980	142	1.667	2.333	1.667	2.000	1.333	.667	.667	12.333	1.542
23	35981	143	2.333	1.667	2.667	1.333	2.000	2.333	1.333	16.333	2.042
24	35982	144	1.000	.667	2.000	3.000	1.667	1.000	.333	10.667	1.333
25	35983	145	1.667	2.333	3.000	3.000	3.000	2.000	3.333	20.667	2.583
26	35984	146	3.667	3.667	4.333	5.000	3.667	4.667	3.333	32.000	4.000
27	35985	147	2.333	2.333	3.000	2.667	2.000	1.333	1.000	16.333	2.042
28	35986	148	1.667	1.000	2.333	2.000	1.667	2.333	2.000	14.000	1.750
29	35987	149	1.000	1.333	2.333	1.000	2.000	1.000	1.333	11.333	1.417
30	35988	150	2.667	1.333	3.000	5.333	4.667	4.667	3.000	29.333	3.667
31	35989	151	2.667	3.667	1.667	2.667	1.000	2.333	2.333	17.333	2.167

MAY 1957

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AVG AP	MAGNETIC CHARACTER
1	35959	121	27	32	27	18	7	9	5	4	16.375	.7
2	35960	122	7	15	14	15	12	4	4	7	10.250	.4
3	35961	123	6	9	5	12	7	12	12	27	11.250	.7
4	35962	124	5	5	9	9	12	12	12	12	9.500	.5
5	35963	125	12	7	5	6	7	7	5	12	7.625	.4
6	35964	126	12	12	9	32	15	6	6	9	12.625	.8
7	35965	127	12	22	12	7	7	12	9	4	10.625	.7
8	35966	128	2	4	12	12	9	12	12	27	11.250	.9
9	35967	129	22	39	39	22	18	15	15	6	22.000	1.0
10	35968	130	6	9	6	9	7	5	18	22	10.250	.6
11	35969	131	9	7	4	5	6	5	7	18	7.625	.6
12	35970	132	9	4	5	6	4	6	2	7	5.375	.2
13	35971	133	12	12	6	12	12	12	15	9	11.250	.6
14	35972	134	6	7	4	5	5	4	7	5	5.625	.3
15	35973	135	5	2	3	5	6	5	5	9	5.000	.2
16	35974	136	2	2	3	3	2	5	9	4	3.750	.2
17	35975	137	3	7	6	6	4	15	7	7	6.875	.4
18	35976	138	6	5	6	5	6	4	7	7	5.750	.2
19	35977	139	6	3	6	6	18	13	18	18	11.625	.6
20	35978	140	15	22	18	15	18	22	18	9	17.125	.9
21	35979	141	9	15	12	22	18	9	9	7	12.625	.8
22	35980	142	6	9	6	7	5	7	3	3	5.750	.4
23	35981	143	9	6	12	5	7	9	12	5	8.125	.4
24	35982	144	4	3	7	15	6	4	4	2	5.625	.2
25	35983	145	6	9	15	15	15	7	9	18	11.750	.8
26	35984	146	22	22	32	48	22	37	18	22	28.125	1.2
27	35985	147	9	9	15	12	7	5	4	6	8.375	.4
28	35986	148	6	4	9	7	6	9	4	7	6.500	.4
29	35987	149	4	5	9	4	5	7	4	5	5.375	.2
30	35988	150	12	5	15	56	39	39	39	15	27.500	1.3
31	35989	151	12	22	6	12	4	4	9	9	9.750	.5



[illegible][illegible]

MONTHLY AVERAGE	208.7
MONTHLY SMOOTHED	229.5

164.6  
185.5

GEOMAGNETIC PLANETARY INDICES

91

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOO. DAY		MAGNETIC CHARACTER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	JULIAN DAY	YEAR	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP

JUNE 1957

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1- DAILY	2- DAILY	3- DAILY	4- DAILY	5- DAILY	6- DAILY	7- DAILY	8- DAILY	9- DAILY	10- DAILY	11- DAILY	12- DAILY	13- DAILY	14- DAILY	15- DAILY	16- DAILY	17- DAILY	18- DAILY	19- DAILY	20- DAILY	21- DAILY	22- DAILY	23- DAILY	24- DAILY	25- DAILY	26- DAILY	27- DAILY	28- DAILY	29- DAILY	30- DAILY
1	35990	152	1	218.0	213.4	206.5	203.5	1	158	174.1	173.9	166.1																				
2	35991	153	1	229.0	214.6	206.9	203.7	1	163	175.0	173.9	165.3																				
3	35992	154	1	230.0	215.5	207.6	204.0	1	180	176.5	174.4	165.3																				
4	35993	155	1	216.0	215.9	208.2	204.3	1	169	177.2	175.3	165.5																				
5	35994	156	1	222.0	215.7	208.9	204.6	1	159	177.1	176.1	165.7																				
6	35995	157	1	226.0	215.7	209.7	204.9	1	194	177.1	177.1	166.2																				
7	35996	158	1	221.0	215.2	210.4	205.2	1	170	175.6	178.0	166.5																				
8	35997	159	1	223.0	215.0	210.3	205.5	1	145	173.4	177.6	166.5																				
9	35998	160	1	233.0	214.7	211.2	206.0	1	168	172.3	177.4	167.0																				
10	35999	161	1	220.0	213.6	211.4	206.3	1	158	170.2	176.6	167.5																				
11	36000	162	1	224.0	213.2	211.7	206.6	1	140	167.6	175.4	167.5																				
12	36001	163	1	226.0	212.7	212.1	206.8	1	160	166.3	174.5	167.6																				
13	36002	164	1	245.6	214.0	212.8	207.4	1	178	166.3	174.0	168.0																				
14	36003	165	1	247.0	215.2	213.6	208.0	1	158	165.3	172.9	168.0																				
15	36004	166	1	255.0	217.2	214.3	208.8	1	225	167.2	173.1	168.7																				
16	36005	167	1	264.0	219.0	215.2	209.4	1	239	169.3	173.3	169.7																				
17	36006	168	1	268.0	220.4	216.2	210.3	1	252	171.0	173.4	171.0																				
18	36007	169	1	268.0	223.2	217.4	211.3	1	272	175.2	173.8	172.4																				
19	36008	170	1	292.0	226.3	218.4	212.5	1	274	178.7	174.7	173.7																				
20	36009	171	1	295.0	229.5	219.9	213.6	1	272	181.9	175.8	175.2																				
21	36010	172	1	295.0	233.1	221.7	214.6	1	265	186.1	176.6	176.8																				
22	36011	173	1	293.0	237.2	223.7	215.7	1	242	190.2	177.8	177.9																				
23	36012	174	1	297.0	240.9	225.9	217.1	1	232	193.9	179.2	179.1																				
24	36013	175	1	277.0	244.4	227.8	218.1	1	235	197.3	181.3	180.0																				
25	36014	176	1	253.0	247.0	229.2	219.9	1	208	199.0	182.9	180.9																				
26	36015	177	1	260.0	249.3	230.6	220.0	1	212	200.3	184.6	182.2																				
27	36016	178	1	259.0	251.0	231.9	221.1	1	220	201.8	186.7	183.2																				
28	36017	179	1	261.0	252.6	233.0	221.9	1	190	203.0	188.5	183.6																				
29	36018	180	1	260.0	253.8	234.2	222.5	1	180	203.6	189.3	183.8																				
30	36019	181	1	265.0	255.1	235.3	223.4	1	204	204.5	190.5	184.4																				

MONTHLY AVERAGE 252.1  
MONTHLY SMOOTHED 231.3

200.7  
187.9

JULY 1957

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	36020 182	7.333	7.333	6.667	3.333	1.667	4.667	7.000	5.000	43.000	5.375
2	36021 183	1.667	1.000	2.667	4.667	8.000	6.333	5.667	2.333	32.333	4.042
3	36022 184	5.667	4.333	3.667	4.333	5.333	1.333	2.333	3.000	30.000	3.750
4	36023 185	1.000	.667	.333	1.333	1.000	1.667	3.667	5.000	14.667	1.833
5	36024 186	4.667	7.333	6.000	5.667	3.333	2.000	3.000	5.667	37.667	4.708
6	36025 187	2.333	2.667	3.333	2.667	2.333	2.333	3.667	4.667	24.000	3.000
7	36026 188	2.333	2.667	2.000	1.333	2.000	1.333	3.333	2.333	17.333	2.167
8	36027 189	2.667	2.333	3.000	1.333	2.000	2.333	1.667	2.000	17.333	2.167
9	36028 190	2.667	1.000	1.667	1.000	1.333	1.667	1.333	1.667	12.333	1.542
10	36029 191	2.000	2.333	1.000	.667	.667	.667	.667	.667	8.667	1.083
11	36030 192	1.333	.667	.333	1.333	2.667	.333	1.000	1.333	9.000	1.125
12	36031 193	3.000	2.333	2.667	1.333	2.333	1.333	2.333	2.000	17.333	2.167
13	36032 194	1.333	1.000	.667	.667	.667	1.000	.667	.000	6.000	.750
14	36033 195	.333	1.000	.667	1.667	2.000	1.333	1.667	2.667	11.333	1.417
15	36034 196	2.667	1.000	.667	1.333	1.000	.667	.333	1.000	8.667	1.042
16	36035 197	1.333	.333	3.000	3.667	3.333	4.000	4.000	3.000	22.667	2.833
17	36036 198	2.667	1.333	.667	2.333	2.333	1.333	2.333	2.667	15.667	1.958
18	36037 199	1.667	2.000	2.333	3.000	3.000	3.667	3.000	2.667	21.333	2.667
19	36038 200	4.000	3.000	3.333	2.667	4.000	4.333	4.667	4.333	30.333	3.792
20	36039 201	3.000	3.000	2.000	1.333	2.000	2.000	2.333	3.667	19.333	2.417
21	36040 202	2.000	1.667	.667	1.333	1.333	1.333	1.667	2.333	12.333	1.542
22	36041 203	1.667	3.333	4.000	4.333	3.333	3.333	5.667	3.667	29.333	3.667
23	36042 204	3.667	4.667	1.000	1.000	.667	.667	.667	2.667	15.000	1.875
24	36043 205	2.667	1.333	2.667	2.333	3.000	3.000	2.667	2.667	20.333	2.542
25	36044 206	2.333	1.333	2.000	1.000	1.000	2.333	1.667	1.667	13.333	1.667
26	36045 207	1.333	1.000	1.000	1.000	1.333	.667	.333	.667	7.333	.917
27	36046 208	.333	1.000	.000	.667	1.000	1.667	4.000	3.000	11.667	1.458
28	36047 209	3.000	1.667	1.667	1.000	1.000	1.000	1.333	1.333	12.000	1.500
29	36048 210	2.000	3.333	2.667	3.667	3.000	2.000	1.333	2.000	20.000	2.500
30	36049 211	1.000	2.000	2.000	1.333	1.000	.667	1.667	2.000	11.667	1.458
31	36050 212	1.667	1.333	1.667	2.000	1.667	1.667	1.333	3.000	14.333	1.792

# GEOMAGNETIC PLANETARY INDICES

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

95

JULY 1957

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10 <sup>7</sup> CM OTTAWA)-----1-----RELATIVE ZURICH SUNSPOT NUMBER-----1-----RUNNING MEANS-----1-----RUNNING MEANS-----1-----RUNNING MEANS-----	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	36020 182	1	256.0	256.5	236.2	224.3	185	205.1	191.1	185.2
2	36021 183	1	242.0	257.2	236.5	225.0	194	206.4	191.7	185.2
3	36022 184	1	254.0	258.3	237.0	225.9	204	206.7	191.9	187.0
4	36023 185	1	249.0	259.3	237.2	226.7	235	209.1	192.4	180.4
5	36024 186	1	238.0	259.9	237.4	227.1	213	211.7	192.5	189.0
6	36025 187	1	224.0	259.5	237.1	227.3	226	213.8	193.1	189.5
7	36026 188	1	211.0	259.2	236.4	227.3	192	215.1	192.6	189.4
8	36027 189	1	201.0	258.3	235.8	227.3	152	215.5	191.6	188.8
9	36028 190	1	196.0	257.3	235.0	227.2	162	215.6	190.9	188.2
10	36029 191	1	188.0	255.2	234.6	226.9	135	214.0	190.1	187.3
11	36030 192	1	170.0	252.3	233.8	226.5	107	212.1	188.7	186.0
12	36031 193	1	176.0	249.4	233.3	226.0	93	207.2	187.2	184.4
13	36032 194	1	188.0	246.6	232.8	225.7	97	202.0	185.6	182.9
14	36033 195	1	187.0	243.6	232.0	225.3	136	197.7	184.4	181.5
15	36034 196	1	186.0	239.9	231.5	224.9	156	193.4	184.3	180.3
16	36035 197	1	203.0	236.6	231.5	224.5	184	190.0	184.4	179.8
17	36036 198	1	217.0	233.7	231.6	224.5	203	187.5	184.7	179.7
18	36037 199	1	227.0	231.2	232.2	224.9	218	185.7	185.9	179.6
19	36038 200	1	220.0	228.5	232.8	225.3	223	185.0	187.6	180.2
20	36039 201	1	230.0	226.0	233.4	225.9	238	185.3	189.6	181.2
21	36040 202	1	244.0	224.8	234.6	226.8	250	185.8	191.6	182.8
22	36041 203	1	236.0	224.1	235.6	227.5	255	187.6	193.3	184.4
23	36042 204	1	250.0	223.8	236.5	228.4	265	189.5	194.9	186.2
24	36043 205	1	255.0	223.6	237.3	229.2	265	191.2	196.5	188.2
25	36044 206	1	246.0	223.1	237.9	229.7	227	192.6	197.8	189.9
26	36045 207	1	231.0	222.0	237.9	230.1	206	193.5	198.6	190.7
27	36046 208	1	232.0	220.8	237.9	230.5	173	192.4	198.4	191.1
28	36047 209	1	212.0	219.1	237.8	230.5	158	191.4	198.2	191.2
29	36048 210	1	201.0	217.6	237.4	230.2	142	189.4	197.9	191.0
30	36049 211	1	193.0	215.4	236.8	229.8	159	187.8	197.3	190.5
31	36050 212	1	191.0	213.2	236.3	229.2	150	184.6	196.9	189.8

MONTHLY AVERAGE 218.0  
MONTHLY SMOOTHED 233.6

187.2  
191.4

AUGUST 1957

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36051 213	1.667	2.333	2.333	1.000	2.000	1.333	1.667	1.333	1.667	13.667	1.708
2	36052 214	3.000	2.000	1.667	1.667	2.333	1.333	2.000	3.000	3.000	17.000	2.125
3	36053 215	2.667	1.000	2.333	2.000	2.000	6.333	5.333	4.000	25.667	3.208	3.208
4	36054 216	5.333	2.000	2.000	.667	1.000	1.667	1.000	1.667	15.333	1.917	1.917
5	36055 217	1.667	1.000	1.000	.667	.667	2.667	3.333	4.333	15.333	1.917	1.917
6	36056 218	3.000	4.333	5.667	3.667	4.000	3.667	4.333	4.333	33.000	4.125	4.125
7	36057 219	3.000	2.000	2.667	1.667	2.000	1.000	1.000	1.333	14.667	1.833	1.833
8	36058 220	1.000	2.000	2.333	2.000	2.000	.667	2.667	2.333	15.000	1.875	1.875
9	36059 221	4.000	3.333	2.333	1.333	4.667	2.000	2.000	3.333	22.999	2.875	2.875
10	36060 222	4.000	3.000	1.333	1.667	.333	.667	1.000	2.333	14.333	1.792	1.792
11	36061 223	1.667	.667	.333	1.000	1.333	1.333	1.000	1.667	9.000	1.125	1.125
12	36062 224	2.333	3.667	3.333	3.000	4.000	4.000	4.000	2.333	26.667	3.333	3.333
13	36063 225	4.333	5.333	5.667	4.333	3.667	3.000	3.667	3.000	33.000	4.125	4.125
14	36064 226	.667	1.333	1.000	1.667	2.667	2.333	2.667	2.333	14.667	1.833	1.833
15	36065 227	3.667	2.000	1.667	1.333	1.000	1.000	2.667	3.000	16.333	2.042	2.042
16	36066 228	2.333	2.333	.667	1.333	1.000	1.000	1.333	1.000	11.000	1.375	1.375
17	36067 229	.667	.333	.333	.667	1.667	2.000	.333	.667	6.667	.833	.833
18	36068 230	2.000	1.333	.333	2.667	2.667	1.333	1.667	2.333	14.333	1.792	1.792
19	36069 231	4.000	3.667	3.333	3.333	1.667	1.000	.333	1.000	18.333	2.292	2.292
20	36070 232	.667	1.333	1.333	2.000	3.333	3.000	2.667	3.333	17.667	2.208	2.208
21	36071 233	4.000	5.333	3.333	2.667	2.333	3.667	1.333	.667	23.333	2.917	2.917
22	36072 234	.000	.667	1.333	1.667	.667	1.000	1.000	1.333	7.667	.958	.958
23	36073 235	.667	.000	.333	1.000	1.333	.333	.333	.333	4.333	.542	.542
24	36074 236	.000	.333	.333	.667	1.000	.667	.667	1.000	4.667	.583	.583
25	36075 237	.333	1.000	1.000	1.333	1.667	2.000	3.000	2.667	13.000	1.625	1.625
26	36076 238	1.667	1.000	.667	.667	1.333	2.667	2.667	2.333	14.667	1.833	1.833
27	36077 239	3.667	4.000	3.667	3.333	2.667	2.667	3.667	3.000	26.667	3.333	3.333
28	36078 240	1.667	2.333	3.333	2.333	2.667	2.333	2.000	2.667	19.333	2.417	2.417
29	36079 241	2.333	1.333	.667	1.333	2.000	1.333	6.667	6.000	21.667	2.708	2.708
30	36080 242	6.667	5.667	4.333	4.333	2.000	4.667	3.000	1.000	31.667	3.958	3.958
31	36081 243	2.000	2.667	2.667	1.667	4.000	5.000	7.000	5.000	30.000	3.750	3.750



AUGUST 1957

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	36051	213	6	9	9	4	7	5	6	5	6	375			.3
2	36052	214	15	7	6	6	9	5	7	15	8	750			.7
3	36053	215	12	4	9	7	7	94	56	27	27	000			1.2
4	36054	216	56	7	7	3	4	6	4	6	11	625			.9
5	36055	217	6	4	4	3	3	12	18	32	10	250			.6
6	36056	218	15	32	67	22	27	22	32	32	31	125			1.3
7	36057	219	15	7	12	6	7	4	4	5	7	500			.4
8	36058	220	4	7	9	7	7	3	12	9	7	250			.4
9	36059	221	27	18	9	5	39	7	7	18		016			.9
10	36060	222	27	15	5	6	2	3	4	9	8	875			.5
11	36061	223	6	3	2	4	5	5	4	6	4	375			.2
12	36062	224	7	22	18	15	27	27	27	9	19	250			1.1
13	36063	225	32	56	67	32	22	15	22	15	32	625			1.2
14	36064	226	3	5	4	6	12	9	12	9	7	500			.5
15	36065	227	22	7	6	5	4	4	12	15	9	375			.5
16	36066	228	9	9	3	5	4	4	5	4	5	375			.2
17	36067	229	3	2	2	3	6	7	2	3	3	500			.2
18	36068	230	7	5	2	12	12	5	6	9	7	250			.5
19	36069	231	27	22	18	18	6	4	2	4	12	625			.5
20	36070	232	3	5	5	7	18	15	12	18	10	375			.7
21	36071	233	27	56	18	12	9	22	5	3	19	000			.9
22	36072	234	0	3	5	6	3	4	4	5	3	750			.2
23	36073	235	3	0	2	4	5	2	2	2	2	500			.1
24	36074	236	0	2	2	3	4	3	3	4	2	625			.0
25	36075	237	2	4	4	5	6	7	15	12	6	875			.3
26	36076	238	6	4	3	5	9	12	12	9	7	500			.4
27	36077	239	22	27	22	18	12	12	22	15	18	750			1.0
28	36078	240	6	9	18	9	12	9	7	12	10	250			.6
29	36079	241	9	5	3	5	7	5	111	80	28	125			1.2
30	36080	242	111	87	32	32	7	39	15	4	36	375			1.3
31	36081	243	7	12	12	6	27	48	132	48	36	500			1.3

AUGUST 1957

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. JULIAN DAY	DAY YEAR	1-203.0	211.9	235.9	228.9	1	144	182.1	196.9	182.0
1	36051	213	1-203.0	211.9	235.9	228.9	1	144	182.1	196.9	182.0
2	36052	214	200.0	211.0	235.3	228.4	1	148	179.2	196.5	188.4
3	36053	215	198.0	210.6	234.9	227.8	1	162	178.1	196.6	187.8
4	36054	216	194.0	210.3	234.3	227.3	1	163	178.5	197.0	187.2
5	36055	217	187.0	209.9	233.6	226.6	1	158	178.3	197.0	186.7
6	36056	218	187.0	209.9	232.5	226.3	1	163	179.4	196.7	186.5
7	36057	219	185.0	210.4	231.4	226.0	1	157	181.2	196.7	186.2
8	36058	220	181.0	210.6	230.0	225.7	1	141	183.0	195.1	185.8
9	36059	221	175.0	210.1	228.4	225.2	1	121	183.9	192.9	185.0
10	36060	222	169.0	209.4	226.5	224.5	1	89	182.1	189.9	183.6
11	36061	223	173.0	208.9	224.4	224.0	1	96	179.9	186.6	182.8
12	36062	224	177.0	207.9	222.3	223.6	1	116	177.4	183.7	182.0
13	36063	225	172.0	206.3	220.0	223.1	1	104	173.7	180.6	181.0
14	36064	226	182.0	204.6	217.9	223.0	1	135	170.7	178.2	180.9
15	36065	227	183.0	203.2	215.9	223.0	1	137	168.2	176.6	181.2
16	36066	228	197.0	202.0	214.0	223.0	1	195	166.6	175.9	181.9
17	36067	229	216.0	201.0	212.9	223.4	1	197	164.7	175.2	182.6
18	36068	230	216.0	200.2	212.2	223.8	1	196	162.5	175.0	183.0
19	36069	231	214.0	198.9	211.3	224.0	1	186	159.6	174.5	183.1
20	36070	232	199.0	198.8	210.2	223.8	1	170	156.0	173.6	183.0
21	36071	233	194.0	194.9	209.0	223.5	1	138	152.7	172.6	182.9
22	36072	234	185.0	193.2	207.6	223.0	1	114	149.3	171.4	182.1
23	36073	235	197.0	191.9	206.3	222.6	1	108	146.9	169.6	181.3
24	36074	236	199.0	191.4	205.3	222.3	1	110	145.1	168.3	180.5
25	36075	237	210.0	191.7	204.7	222.2	1	132	144.8	167.1	180.2
26	36076	238	217.0	192.7	204.0	222.1	1	164	145.0	166.4	179.8
27	36077	239	222.0	193.9	203.5	222.1	1	181	146.1	165.4	180.0
28	36078	240	238.0	195.1	203.5	222.3	1	204	148.3	165.2	180.7
29	36079	241	230.0	196.6	203.0	222.4	1	236	151.6	165.4	181.5
30	36080	242	263.0	199.0	204.8	222.9	1	252	154.9	166.5	182.7
31	36081	243	294.0	202.7	206.5	223.8	1	261	158.6	168.5	184.2

MONTHLY AVERAGE 202.2  
MONTHLY SMOOTHED 235.4

158.0  
194.4

SEPTEMBER 1957

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	36082 244	5.667	5.667	4.333	3.667	3.333	1.333	2.000	2.333	28.333	3.542
2	36083 245	2.667	6.000	6.333	5.333	7.000	6.000	7.667	7.667	48.667	6.083
3	36084 246	6.667	6.333	6.333	7.333	8.000	8.667	6.000	4.667	54.000	6.750
4	36085 247	3.667	4.667	2.333	2.667	8.333	9.000	8.000	8.333	47.000	5.875
5	36086 248	8.333	8.667	6.667	5.000	4.667	4.000	5.333	6.000	48.667	6.083
6	36087 249	4.667	4.667	2.333	4.667	5.667	5.333	4.333	2.333	34.000	4.250
7	36088 250	3.000	3.667	2.000	3.000	2.000	2.333	1.667	2.000	19.667	2.458
8	36089 251	1.333	.667	1.333	2.000	2.333	2.333	1.000	2.667	13.667	1.708
9	36090 252	2.667	3.667	3.667	3.667	2.667	2.000	2.000	.667	21.000	2.625
10	36091 253	1.000	1.333	2.667	2.000	1.333	2.667	2.333	1.667	15.000	1.875
11	36092 254	1.333	1.000	2.333	2.000	1.333	1.333	1.667	1.667	12.667	1.583
12	36093 255	1.667	1.667	1.333	2.000	2.000	2.333	1.333	2.667	15.000	1.875
13	36094 256	7.667	8.333	8.667	8.667	7.000	6.000	4.000	4.000	54.333	6.792
14	36095 257	3.000	3.333	5.333	6.333	5.333	3.667	2.333	4.333	33.667	4.208
15	36096 258	3.667	4.333	2.000	2.000	2.000	2.333	3.000	3.000	22.333	2.792
16	36097 259	4.667	3.667	1.333	1.667	1.333	1.333	2.667	1.667	18.333	2.292
17	36098 260	1.667	2.000	1.667	2.667	3.667	3.667	3.000	1.667	20.000	2.500
18	36099 261	3.667	3.000	1.667	1.000	2.000	2.667	3.000	2.667	19.667	2.458
19	36100 262	1.333	1.333	1.333	1.667	1.667	1.000	.333	.333	9.000	1.125
20	36101 263	1.667	.333	1.333	1.667	1.000	2.333	2.333	2.000	12.667	1.583
21	36102 264	2.667	1.667	1.333	7.333	6.000	6.667	6.667	6.667	39.000	4.875
22	36103 265	4.667	5.667	5.667	4.667	8.000	8.333	5.000	7.000	49.000	6.125
23	36104 266	8.000	8.667	7.667	7.667	7.667	6.667	6.667	5.000	58.000	7.250
24	36105 267	5.000	5.000	4.333	4.667	5.333	3.000	3.333	2.000	32.667	4.083
25	36106 268	3.667	3.000	4.667	4.000	4.000	1.667	1.000	1.333	23.333	2.917
26	36107 269	1.667	2.667	2.000	2.667	2.667	2.333	1.333	.667	16.000	2.000
27	36108 270	.333	.333	1.667	1.000	1.667	1.333	1.000	1.667	8.667	1.083
28	36109 271	1.333	3.667	3.000	1.333	1.000	1.333	3.000	1.333	16.000	2.000
29	36110 272	4.000	5.333	5.000	4.333	8.000	8.667	8.333	8.000	51.667	6.458
30	36111 273	6.333	5.667	5.333	5.667	5.000	5.000	4.000	4.667	41.667	5.208

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY												MAGNETIC CHARACTER
		AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	
1	36082	244	67	67	32	22	18	5	7	9	28.375	1.2		
2	36083	245	12	80	94	56	132	80	179	179	101.500	1.8		
3	36084	246	111	94	94	154	207	300	80	39	134.875	1.9		
4	36085	247	22	39	9	12	236	400	207	236	145.125	1.9		
5	36086	248	236	300	111	48	39	27	56	80	112.125	1.9		
6	36087	249	39	39	9	39	67	56	32	9	36.250	1.3		
7	36088	250	15	22	7	15	7	9	6	7	11.000	.7		
8	36089	251	5	3	5	7	9	9	4	12	6.750	.3		
9	36090	252	12	22	22	12	7	7	7	3	13.375	.6		
10	36091	253	4	5	12	7	5	12	9	6	7.500	.4		
11	36092	254	5	4	9	7	5	5	6	6	5.875	.2		
12	36093	255	6	6	5	7	7	9	5	12	7.125	.4		
13	36094	256	179	236	300	300	132	80	27	27	160.125	2.0		
14	36095	257	15	18	56	94	56	22	9	32	37.750	1.3		
15	36096	258	22	32	7	7	7	9	15	15	14.250	.8		
16	36097	259	39	22	5	6	5	5	12	6	12.500	.7		
17	36098	260	6	7	6	12	22	22	15	6	12.000	.8		
18	36099	261	22	15	6	4	7	12	15	12	11.625	.5		
19	36100	262	5	5	5	6	6	4	2	2	4.375	.1		
20	36101	263	6	2	5	6	4	9	9	7	6.000	.3		
21	36102	264	12	6	5	154	80	111	111	111	73.750	1.7		
22	36103	265	39	67	67	39	207	236	48	132	104.375	1.9		
23	36104	266	207	300	179	179	179	111	111	48	164.250	2.0		
24	36105	267	48	48	32	39	56	15	18	7	32.875	1.2		
25	36106	268	22	15	39	27	27	6	4	5	18.125	1.0		
26	36107	269	6	12	7	12	12	9	5	3	8.250	.4		
27	36108	270	2	2	6	4	5	5	4	6	4.250	.2		
28	36109	271	5	22	15	5	4	5	15	5	9.500	.3		
29	36110	272	27	56	48	32	207	300	236	207	139.125	2.0		
30	36111	273	94	67	56	67	48	48	27	39	55.750	1.7		

SEPTEMBER 1957

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			36082	244	1	275.0	205.9	207.9	224.4	1	244	161.7	170.0	185.2																		
			36083	245	1	268.0	208.9	209.4	224.7	1	225	164.0	171.7	185.8																		
			36084	246	1	273.0	212.2	211.3	225.0	1	190	165.3	173.2	186.2																		
			36085	247	1	247.0	214.6	212.6	224.9	1	173	166.4	174.7	185.6																		
			36086	248	1	237.0	216.9	213.5	224.5	1	171	168.3	176.1	184.7																		
			36087	249	1	223.0	218.9	214.2	224.0	1	160	170.9	176.5	183.6																		
			36088	250	1	222.0	220.7	214.8	223.2	1	137	172.4	176.2	181.9																		
			36089	251	1	227.0	222.6	215.3	222.4	1	172	174.5	176.0	180.7																		
			36090	252	1	233.0	224.9	215.6	221.6	1	215	178.6	176.2	180.0																		
			36091	253	1	245.0	227.2	215.9	221.0	1	240	182.5	176.6	179.6																		
			36092	254	1	266.0	230.3	216.8	220.7	1	245	185.8	177.0	179.7																		
			36093	255	1	277.0	233.3	217.6	220.4	1	253	187.9	177.3	179.9																		
			36094	256	1	266.0	235.2	218.1	220.3	1	252	190.0	177.3	180.1																		
			36095	257	1	259.0	236.8	218.5	220.4	1	251	192.0	177.2	180.7																		
			36096	258	1	255.0	238.3	218.6	220.3	1	247	194.3	176.9	181.1																		
			36097	259	1	264.0	240.7	218.8	220.4	1	252	197.3	176.7	181.5																		
			36098	260	1	271.0	243.6	219.2	220.5	1	258	201.7	177.2	182.3																		
			36099	261	1	275.0	246.9	220.1	220.7	1	273	207.6	178.5	183.5																		
			36100	262	1	301.0	250.8	221.3	221.1	1	290	214.4	180.6	184.6																		
			36101	263	1	302.0	254.6	223.0	221.7	1	302	221.5	183.3	186.0																		
			36102	264	1	328.0	259.0	225.4	222.8	1	334	229.0	186.9	187.7																		
			36103	265	1	329.0	263.0	227.9	223.7	1	302	234.1	189.5	188.9																		
			36104	266	1	295.0	265.7	229.8	224.3	1	268	237.3	191.7	189.3																		
			36105	267	1	285.0	267.5	231.3	224.9	1	238	238.6	193.4	189.7																		
			36106	268	1	262.0	268.4	232.5	225.3	1	234	238.5	195.0	189.0																		
			36107	269	1	271.0	268.7	233.8	226.1	1	215	237.1	196.0	190.0																		
			36108	270	1	260.0	267.4	235.1	226.8	1	226	235.8	197.2	191.0																		
			36109	271	1	260.0	266.9	236.4	227.6	1	242	235.7	198.7	191.9																		
			36110	272	1	257.0	266.5	237.7	226.4	1	242	236.4	200.2	193.3																		
			36111	273	1	263.0	266.1	239.1	229.6	1	224	237.6	201.4	194.7																		

MONTHLY AVERAGE 266.7  
MONTHLY SMOOTHED 238.7

235.8  
197.3

GEOMAGNETIC PLANETARY INDICES

103

OCTOBER 1957

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	36112	274	32	27	15	7	22	9	32	22	20.750	1.1			
2	36113	275	22	22	6	6	12	9	6	15	12.250	.8			
3	36114	276	12	7	5	18	22	39	32	15	18.750	1.0			
4	36115	277	15	15	9	12	9	12	15	12	12.375	.8			
5	36116	278	15	15	6	9	7	12	12	7	10.375	.7			
6	36117	279	6	2	4	3	0	0	2	2	2.375	.1			
7	36118	280	4	7	6	6	6	3	7	5	5.500	.2			
8	36119	281	6	0	4	3	2	2	2	2	2.625	.0			
9	36120	282	2	6	9	6	9	9	7	9	7.125	.5			
10	36121	283	15	27	27	15	9	15	22	12	17.750	1.0			
11	36122	284	18	32	18	32	22	15	9	9	19.375	1.1			
12	36123	285	7	15	12	22	12	12	6	18	13.250	.9			
13	36124	286	48	56	15	9	12	9	32	27	26.000	1.2			
14	36125	287	32	94	67	48	32	56	27	48	50.500	1.5			
15	36126	288	18	7	6	9	15	12	18	7	11.500	.8			
16	36127	289	5	2	2	3	5	5	6	2	3.750	.1			
17	36128	290	5	5	5	15	12	7	4	5	7.250	.4			
18	36129	291	6	5	6	5	3	6	12	5	6.000	.2			
19	36130	292	3	5	12	18	6	9	12	6	8.875	.5			
20	36131	293	7	9	5	7	7	15	12	27	11.125	.7			
21	36132	294	18	12	12	6	12	27	22	111	27.500	1.3			
22	36133	295	32	15	22	22	9	18	12	22	19.000	1.1			
23	36134	296	48	12	22	15	5	7	27	22	19.750	1.1			
24	36135	297	7	8	7	9	12	6	22	4	9.125	.5			
25	36136	298	7	6	7	15	7	5	7	9	7.875	.4			
26	36137	299	15	7	5	9	7	5	6	7	7.625	.4			
27	36138	300	7	7	7	12	27	18	7	9	11.750	.7			
28	36139	301	27	7	18	18	7	15	12	4	13.500	.7			
29	36140	302	22	15	22	15	18	12	18	22	18.000	1.0			
30	36141	303	15	22	39	15	12	7	12	5	15.875	.9			
31	36142	304	4	5	6	7	22	4	6	6	7.500	.5			

OCTOBER 1957

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----	1-----RELATIVE ZURICH SUNSPOT NUMBER-----	1-----RUNNING MEANS-----	1-----RUNNING MEANS-----	1-----RUNNING MEANS-----	1-----RUNNING MEANS-----	1-----RUNNING MEANS-----
			DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY
			54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	54-DAY	81-DAY
1	36112	274	1	269.0	266.9	240.8	230.7	1	236
2	36113	275	1	253.0	267.5	242.2	231.5	1	234
3	36114	276	1	266.0	269.1	244.0	232.5	1	242
4	36115	277	1	236.0	269.7	245.2	233.1	1	217
5	36116	278	1	246.0	270.4	246.5	233.6	1	219
6	36117	279	1	251.0	271.1	248.0	234.1	1	227
7	36118	280	1	254.0	271.4	249.3	234.4	1	234
8	36119	281	1	262.0	271.2	250.8	234.9	1	244
9	36120	282	1	276.0	271.1	252.2	235.5	1	267
10	36121	283	1	276.0	271.4	253.3	235.9	1	264
11	36122	284	1	279.0	272.2	254.5	236.4	1	232
12	36123	285	1	285.0	273.3	255.8	236.8	1	236
13	36124	286	1	282.0	274.0	257.4	237.2	1	244
14	36125	287	1	290.0	274.7	259.1	237.7	1	232
15	36126	288	1	278.0	274.8	260.9	238.3	1	264
16	36127	289	1	291.0	274.4	262.6	239.0	1	268
17	36128	290	1	273.0	273.3	264.0	239.8	1	251
18	36129	291	1	296.0	272.1	265.6	241.0	1	222
19	36130	292	1	293.0	270.8	266.9	242.2	1	217
20	36131	293	1	305.0	271.2	268.5	243.6	1	230
21	36132	294	1	284.0	271.1	269.3	244.6	1	237
22	36133	295	1	276.0	271.6	270.0	245.5	1	241
23	36134	296	1	297.0	272.6	270.6	246.8	1	254
24	36135	297	1	282.0	273.4	270.4	247.8	1	276
25	36136	298	1	261.0	273.4	270.2	248.8	1	240
26	36137	299	1	268.0	273.9	270.2	249.8	1	293
27	36138	300	1	298.0	275.1	270.6	251.1	1	280
28	36139	301	1	325.0	277.2	272.1	252.9	1	317
29	36140	302	1	344.0	280.6	274.1	255.0	1	334
30	36141	303	1	346.0	283.6	276.3	257.2	1	317
31	36142	304	1	320.0	286.6	278.1	259.0	1	299

MONTHLY AVERAGE 282.7  
MONTHLY SMOOTHED 242.8

253.8  
199.5



NOVEMBER 1957

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36143 305	1.333	3.333	2.333	2.333	2.333	1.667	2.000	1.667	1.667	16.333	2.042
2	36144 306	1.333	1.667	2.000	2.000	2.000	1.667	1.000	1.667	3.333	14.667	1.833
3	36145 307	3.333	1.333	3.000	3.333	3.333	3.333	3.000	2.333	1.000	20.667	2.563
4	36146 308	1.333	.000	1.000	.667	.667	.333	1.667	1.333	1.333	7.667	.958
5	36147 309	.333	.667	.667	.667	.667	1.000	1.667	1.333	1.000	7.333	.917
6	36148 310	.000	.000	1.333	1.333	1.333	2.000	2.667	5.667	6.333	19.333	2.417
7	36149 311	7.000	4.333	3.333	3.333	3.667	3.333	2.667	2.333	1.000	27.667	3.458
8	36150 312	.667	2.667	3.667	3.667	3.667	3.667	3.000	3.000	4.333	24.667	3.083
9	36151 313	4.000	4.333	4.667	3.333	3.333	4.333	4.000	3.667	4.333	32.667	4.083
10	36152 314	5.000	4.333	4.000	3.667	3.667	3.667	3.667	3.333	3.000	30.667	3.833
11	36153 315	4.000	3.667	4.000	3.667	3.667	4.000	2.667	2.667	3.667	28.333	3.542
12	36154 316	3.667	2.667	2.667	2.667	3.667	4.000	3.667	2.000	2.667	25.000	3.125
13	36155 317	2.667	1.667	2.333	2.333	2.667	3.000	2.333	2.333	3.000	20.000	2.500
14	36156 318	3.667	2.667	3.000	3.000	4.000	4.000	4.000	3.667	3.667	28.667	3.583
15	36157 319	4.000	4.000	4.000	4.000	4.000	3.000	3.333	2.667	2.667	27.667	3.458
16	36158 320	2.667	2.333	2.333	2.333	2.667	2.667	2.667	2.333	1.333	19.000	2.375
17	36159 321	1.667	1.667	1.000	1.333	1.333	1.667	.667	.667	1.000	11.667	1.458
18	36160 322	3.667	4.000	4.000	4.333	4.333	4.667	4.000	3.000	2.333	30.000	3.750
19	36161 323	1.667	3.000	2.667	2.667	2.667	3.000	1.000	2.000	2.000	18.000	2.250
20	36162 324	2.000	2.000	1.333	2.667	2.667	3.000	3.000	2.667	2.333	19.000	2.375
21	36163 325	.333	.000	1.333	.333	.333	1.333	1.000	1.333	2.000	7.667	.958
22	36164 326	2.000	1.333	1.000	1.000	1.000	2.000	2.333	2.000	.333	12.000	1.500
23	36165 327	.333	.667	1.667	1.667	1.667	2.667	2.333	1.333	3.000	13.667	1.708
24	36166 328	3.000	3.333	2.333	2.000	2.000	2.667	3.000	2.667	2.333	21.333	2.667
25	36167 329	3.333	4.000	5.333	4.333	3.333	3.333	4.000	4.000	4.333	32.667	4.083
26	36168 330	5.000	5.000	5.000	3.667	4.333	4.333	6.667	6.667	6.333	42.667	5.333
27	36169 331	6.333	6.333	5.000	5.000	5.000	3.333	4.000	3.333	4.000	37.333	4.667
28	36170 332	4.000	4.333	5.000	4.333	4.000	4.000	3.333	3.333	3.333	31.667	3.958
29	36171 333	3.667	4.000	2.333	3.333	3.333	3.333	3.333	2.000	2.333	24.333	3.042
30	36172 334	2.667	3.000	2.333	2.333	2.333	3.000	2.333	2.000	1.000	18.667	2.333

NOVEMBER 1957

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	AP	MAGNETIC CHARACTER
1	36143	305	5	18	9	9	6	7	6	6	8.250	.4
2	36144	306	5	6	7	7	6	4	6	18	7.375	.4
3	36145	307	18	5	15	18	18	15	9	4	12.750	.7
4	36146	308	5	0	4	3	2	6	5	5	3.750	.1
5	36147	309	2	3	3	3	4	6	5	4	3.750	.2
6	36148	310	0	0	5	5	7	12	67	94	23.750	1.3
7	36149	311	132	32	18	22	18	12	9	4	30.875	1.2
8	36150	312	3	12	22	22	22	15	15	32	17.875	1.5
9	36151	313	27	32	39	18	32	27	22	32	28.625	1.3
10	36152	314	48	32	27	22	22	22	18	15	25.750	1.2
11	36153	315	27	22	27	22	27	12	12	22	21.375	1.1
12	36154	316	22	12	12	22	27	22	7	12	17.000	1.0
13	36155	317	12	6	9	12	15	9	9	15	10.875	.8
14	36156	318	22	12	15	27	27	27	22	22	21.750	1.1
15	36157	319	27	27	27	27	15	18	12	12	20.625	1.0
16	36158	320	12	7	9	12	12	12	9	5	10.000	.6
17	36159	321	6	6	4	5	6	3	3	15	6.000	.2
18	36160	322	22	27	27	32	39	27	15	9	24.750	1.2
19	36161	323	6	15	12	12	15	4	7	7	9.750	.6
20	36162	324	7	7	5	12	15	15	12	9	10.250	.7
21	36163	325	2	0	5	2	5	4	5	7	3.750	.2
22	36164	326	7	5	4	4	7	9	7	2	5.625	.2
23	36165	327	2	3	6	6	12	9	5	15	7.250	.4
24	36166	328	15	18	9	7	12	15	12	9	12.125	.8
25	36167	329	18	27	56	32	18	27	27	32	29.625	1.3
26	36168	330	48	48	48	22	32	111	111	94	64.250	1.8
27	36169	331	94	94	48	48	18	27	18	27	46.750	1.5
28	36170	332	27	32	48	32	27	18	18	18	27.500	1.2
29	36171	333	22	27	9	18	18	18	7	9	16.000	.9
30	36172	334	12	15	9	9	15	9	7	4	10.000	.6

NOVEMBER 1957

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1				1-----RUNNING MEANS-----1				1-----RELATIVE ZURICH SUNSPOT NUMBER-----1			
DAY	YEAR	DAILY 27-DAY	DAILY 54-DAY	81-DAY	DAILY 27-DAY	DAILY 54-DAY	81-DAY	DAILY 27-DAY	DAILY 54-DAY	81-DAY	DAILY 27-DAY	DAILY 54-DAY	81-DAY	
1	36143	305	1	303.0	288.7	279.6	260.6	1	266	258.7	254.4	227.8		
2	36144	306	1	291.0	270.2	260.6	262.0	1	250	259.6	255.0	229.6		
3	36145	307	1	268.0	270.7	281.1	263.1	1	232	259.5	254.9	230.8		
4	36146	308	1	238.0	209.8	280.5	263.8	1	214	258.4	254.3	231.5		
5	36147	309	1	242.0	288.6	279.9	264.3	1	201	256.0	253.4	231.5		
6	36148	310	1	241.0	287.3	279.4	264.6	1	182	252.9	252.1	231.4		
7	36149	311	1	245.0	286.0	279.1	265.0	1	177	250.9	250.7	231.1		
8	36150	312	1	237.0	284.2	278.8	265.3	1	158	248.0	249.0	230.8		
9	36151	313	1	232.0	282.4	278.2	265.7	1	192	246.1	247.9	231.0		
10	36152	314	1	234.0	280.3	277.5	266.2	1	226	245.9	247.3	232.1		
11	36153	315	1	248.0	279.2	277.0	267.0	1	232	244.7	246.6	233.6		
12	36154	316	1	259.0	278.0	276.2	267.7	1	231	243.3	245.5	235.1		
13	36155	317	1	252.0	277.2	275.3	268.4	1	221	242.2	244.0	236.5		
14	36156	318	1	250.0	275.5	273.8	269.9	1	210	241.7	241.7	237.4		
15	36157	319	1	245.0	273.7	272.3	269.2	1	177	240.3	239.4	237.6		
16	36158	320	1	245.0	271.5	271.4	269.5	1	179	238.4	237.7	237.6		
17	36159	321	1	231.0	269.6	270.3	269.4	1	181	236.3	236.7	237.3		
18	36160	322	1	250.0	268.6	270.1	269.5	1	185	234.2	235.8	236.7		
19	36161	323	1	254.0	267.0	269.8	269.4	1	194	232.0	235.4	236.0		
20	36162	324	1	264.0	266.3	269.9	269.1	1	207	229.4	235.0	235.3		
21	36163	325	1	277.0	266.9	270.2	269.1	1	234	229.2	234.9	235.2		
22	36164	326	1	298.0	268.0	270.9	269.5	1	263	228.1	235.3	235.6		
23	36165	327	1	263.0	267.5	271.3	269.6	1	251	227.0	235.8	236.4		
24	36166	328	1	209.0	266.1	271.7	270.1	1	238	224.1	235.8	237.2		
25	36167	329	1	274.0	263.6	272.1	270.6	1	211	219.6	235.4	237.7		
26	36168	330	1	262.0	260.4	272.0	271.0	1	199	215.2	234.6	238.2		
27	36169	331	1	261.0	258.3	272.4	271.5	1	201	211.6	234.3	239.0		
28	36170	332	1	250.0	256.6	272.6	271.9	1	215	209.7	234.2	239.5		
29	36171	333	1	250.0	255.1	272.6	272.1	1	215	208.4	234.0	239.5		
30	36172	334	1	281.0	255.6	273.1	272.6	1	184	206.6	233.1	238.8		

MONTHLY AVERAGE 258.7  
MONTHLY SMOOTHED 245.2

210.9  
200.8

DECEMBER 1957

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36173 335	4.667	5.667	4.667	3.667	3.667	3.000	2.667	2.333	4.000	30.667	3.083
2	36174 336	3.000	3.667	3.667	3.667	3.667	3.667	3.000	2.000	2.000	24.667	3.083
3	36175 337	2.000	2.333	3.333	3.333	3.333	3.667	2.667	2.000	2.333	21.667	2.708
4	36176 338	3.000	1.667	3.000	3.000	3.000	2.000	1.667	.667	2.333	17.333	2.167
5	36177 339	4.000	4.000	4.000	3.333	3.333	3.333	3.667	4.667	4.333	31.333	3.917
6	36178 340	4.000	4.667	3.667	4.567	4.567	4.000	4.333	3.667	2.667	31.667	3.958
7	36179 341	2.667	2.667	4.667	4.000	4.667	4.667	2.667	2.667	3.000	27.000	3.375
8	36180 342	3.000	3.000	2.667	2.667	2.667	2.000	1.667	2.333	2.333	17.667	2.458
9	36181 343	3.333	3.000	2.667	3.667	3.667	3.667	3.667	2.333	4.000	26.333	3.292
10	36182 344	3.667	3.667	2.667	3.333	3.333	3.333	4.333	3.667	4.333	29.000	3.625
11	36183 345	3.667	5.667	5.333	4.333	4.333	4.333	3.667	4.667	5.333	37.000	4.625
12	36184 346	4.333	4.333	4.000	4.667	4.667	3.333	4.000	4.333	4.000	33.000	4.125
13	36185 347	3.333	3.333	2.667	5.000	5.000	3.333	4.667	3.000	1.000	26.333	3.292
14	36186 348	3.000	2.667	2.333	1.667	1.667	1.667	1.000	1.667	2.333	16.333	2.042
15	36187 349	2.667	3.000	3.000	4.333	4.333	4.667	4.667	3.000	1.333	26.667	3.333
16	36188 350	3.000	2.667	2.333	2.333	2.333	2.667	2.333	3.333	3.667	22.333	2.792
17	36189 351	3.667	4.333	4.667	2.333	2.333	2.000	3.000	3.333	3.333	26.667	3.333
18	36190 352	3.333	2.667	2.333	3.000	3.000	2.667	2.667	1.333	2.000	20.000	2.500
19	36191 353	2.667	3.000	2.667	4.000	4.000	3.667	3.000	4.333	3.667	27.000	3.375
20	36192 354	3.667	4.667	3.000	3.000	3.000	3.000	2.667	3.333	3.667	27.000	3.375
21	36193 355	2.667	4.667	4.000	2.333	2.333	2.000	2.000	2.000	2.000	21.667	2.708
22	36194 356	2.333	2.333	1.000	.667	.667	.667	.667	1.000	.000	8.667	1.083
23	36195 357	1.333	1.333	1.000	1.333	1.333	1.000	.667	.667	.667	8.000	1.000
24	36196 358	.667	1.333	.667	2.667	2.667	2.333	1.667	2.333	1.667	13.333	1.667
25	36197 359	1.333	3.333	3.667	2.667	2.667	3.000	2.333	3.667	3.667	23.667	2.958
26	36198 360	2.667	4.333	3.333	3.667	3.667	4.000	3.000	3.000	1.667	25.667	3.208
27	36199 361	2.000	1.667	1.000	1.333	1.333	2.333	1.333	2.000	2.333	14.000	1.750
28	36200 362	1.000	1.333	.667	.667	.667	1.000	1.000	1.333	1.333	8.333	1.042
29	36201 363	.333	.667	.667	1.333	1.333	2.333	1.333	1.333	3.000	11.000	1.375
30	36202 364	3.333	3.000	4.000	4.667	4.667	4.000	2.000	1.000	1.333	23.333	2.917
31	36203 365	4.000	5.000	5.667	5.333	5.333	4.667	5.333	5.667	5.667	41.333	5.167

MAGNETIC  
CHARACTER

DAY OF MONTH		MOD. DAY OF JULIAN		AP		AP		AP		AP		AP		AP		AP		MAGNETIC CHARACTER		
DAY	MONTH	DAY	YEAR	AP	1	AP	2	AP	3	AP	4	AP	5	AP	6	AP	7	AP	8	AP
1	36173	335	39	67	39	22	15	12	9	27	28.750	1.2								
2	36174	336	15	22	22	22	15	7	7	16.500	.9									
3	36175	337	7	9	18	22	12	7	9	12.750	.0									
4	36176	338	15	6	15	15	7	6	3	9.500	.5									
5	36177	339	27	27	18	18	22	39	32	26.250	1.1									
6	36178	340	27	39	27	39	27	32	12	27.500	1.1									
7	36179	341	12	12	39	27	39	12	15	21.000	1.1									
8	36180	342	15	15	12	12	7	6	9	10.525	.5									
9	36181	343	18	15	12	22	22	22	9	27	18.375	1.0								
10	36182	344	22	22	12	18	18	32	22	32	22.250	1.1								
11	36183	345	22	67	56	32	32	22	39	56	40.750	1.4								
12	36184	346	32	32	27	39	18	27	32	27	29.250	1.1								
13	36185	347	18	18	12	48	18	39	15	4	21.500	1.0								
14	36186	348	15	12	9	6	6	4	6	9	8.375	.3								
15	36187	349	12	15	15	32	39	39	15	5	21.500	1.1								
16	36188	350	15	12	9	9	12	9	18	22	13.250	.8								
17	36189	351	22	32	39	7	15	18	18	18	20.000	1.0								
18	36190	352	18	12	9	15	12	12	5	7	11.250	.5								
19	36191	353	12	15	12	27	22	15	32	22	19.625	1.1								
20	36192	354	22	39	15	15	15	12	18	22	19.750	1.1								
21	36193	355	12	39	27	9	7	7	7	7	14.375	.7								
22	36194	356	9	9	4	3	3	3	4	0	4.375	.1								
23	36195	357	5	5	4	5	4	3	3	3	4.000	.1								
24	36196	358	3	5	3	12	9	6	9	6	6.625	.4								
25	36197	359	5	18	22	12	15	9	22	22	15.625	1.0								
26	36198	360	12	32	18	22	27	15	15	6	18.375	1.0								
27	36199	361	7	6	4	5	9	5	7	9	6.500	.4								
28	36200	362	4	5	3	3	4	4	5	5	4.125	.1								
29	36201	363	2	3	3	5	9	5	5	15	5.875	.4								
30	36202	364	18	15	27	39	27	7	4	5	17.750	1.0								
31	36203	365	27	48	67	56	39	56	67	67	53.375	1.6								

DECEMBER 1957

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			36173	335	1	299.0	257.8	273.8	272.9	1	230	207.2	232.8	238.6																			
			36174	336	1	274.0	259.0	273.8	272.9	1	217	207.8	231.9	238.2																			
			36175	337	1	287.0	260.7	274.0	273.1	1	230	209.6	231.2	237.9																			
			36176	338	1	282.0	262.1	274.0	273.4	1	243	212.0	231.4	237.8																			
			36177	339	1	277.0	263.6	273.9	273.7	1	266	216.0	232.0	238.0																			
			36178	340	1	275.0	265.1	273.8	273.8	1	245	218.0	232.0	237.9																			
			36179	341	1	237.0	265.3	272.8	273.4	1	190	216.6	231.2	237.1																			
			36180	342	1	246.0	265.2	272.2	273.0	1	197	215.3	230.0	236.2																			
			36181	343	1	232.0	264.2	271.1	272.2	1	152	212.4	227.9	234.5																			
			36182	344	1	213.0	262.7	270.0	271.1	1	148	209.7	225.9	232.6																			
			36183	345	1	214.0	261.4	268.5	269.7	1	151	207.5	224.6	230.3																			
			36184	346	1	212.0	260.2	267.0	268.2	1	157	206.8	223.5	228.5																			
			36185	347	1	225.0	259.4	265.5	267.4	1	161	206.1	222.2	227.2																			
			36186	348	1	231.0	259.4	264.5	266.7	1	167	205.6	220.9	226.3																			
			36187	349	1	240.0	259.1	263.8	266.4	1	174	205.2	219.7	225.6																			
			36188	350	1	256.0	259.1	263.1	266.2	1	187	204.9	218.5	225.2																			
			36189	351	1	283.0	259.9	263.1	266.5	1	205	204.9	217.1	225.0																			
			36190	352	1	296.0	260.6	263.7	267.0	1	225	204.5	216.9	224.8																			
			36191	353	1	298.0	260.6	264.3	267.5	1	249	204.0	216.1	224.8																			
			36192	354	1	339.0	262.6	265.1	268.4	1	284	205.2	216.1	225.6																			
			36193	355	1	354.0	265.0	265.6	269.5	1	299	207.5	215.8	226.4																			
			36194	356	1	371.0	268.6	266.1	270.9	1	316	211.4	215.5	227.4																			
			36195	357	1	383.0	273.1	266.8	272.4	1	343	216.7	215.9	228.6																			
			36196	358	1	376.0	277.4	267.8	274.1	1	355	222.4	217.0	230.3																			
			36197	359	1	369.0	281.5	269.0	275.6	1	355	227.6	218.6	232.0																			
			36198	360	1	362.0	285.6	270.4	277.0	1	337	232.1	220.2	233.4																			
			36199	361	1	347.0	288.1	271.8	278.1	1	275	235.5	221.0	233.9																			
			36200	362	1	322.0	288.9	273.4	278.9	1	260	236.6	221.9	234.1																			
			36201	363	1	286.0	289.4	274.2	279.0	1	275	238.7	223.3	234.2																			
			36202	364	1	280.0	289.1	274.9	279.0	1	274	240.4	225.0	234.3																			
			36203	365	1	284.0	289.2	275.6	279.1	1	255	240.8	226.4	234.6																			

MONTHLY AVERAGE 208.7  
MONTHLY SMOOTHED 244.4

239.4  
200.1

JANUARY 1958

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36204	1	6.000	6.333	4.000	3.333	3.667	5.333	4.000	38.000	4.750
2	36205	2	4.333	4.000	4.000	3.667	2.333	2.333	1.667	26.667	3.333
3	36206	3	2.000	1.000	.333	1.667	1.000	.667	.667	8.333	1.042
4	36207	4	.667	.667	.333	1.000	.667	.333	.667	2.000	.792
5	36208	5	3.000	2.333	1.333	1.333	2.000	1.667	.667	12.667	1.583
6	36209	6	1.000	1.667	2.000	2.000	2.667	2.333	1.333	14.667	1.833
7	36210	7	2.000	2.000	1.667	1.667	2.667	1.000	1.333	13.333	1.667
8	36211	8	1.333	1.000	2.000	2.000	2.000	.667	.333	11.333	1.417
9	36212	9	1.667	1.333	1.333	2.667	3.333	3.000	3.333	20.000	2.500
10	36213	10	4.000	2.000	1.667	2.333	2.667	2.000	1.667	17.333	2.167
11	36214	11	3.333	2.333	1.333	3.000	2.333	3.000	2.333	21.000	2.625
12	36215	12	3.000	3.667	3.000	2.667	3.000	2.667	2.333	22.667	2.833
13	36216	13	3.333	3.667	2.667	1.667	2.333	2.667	4.000	23.667	2.958
14	36217	14	1.667	1.000	3.000	3.333	2.667	3.000	2.667	22.000	2.750
15	36218	15	2.000	3.000	3.667	3.000	3.667	3.000	2.667	24.000	3.000
16	36219	16	1.000	2.333	2.667	3.000	2.667	3.000	3.333	21.667	2.708
17	36220	17	2.667	3.667	3.667	3.667	3.667	3.667	4.333	29.000	3.625
18	36221	18	4.333	4.333	5.000	4.667	4.333	3.667	2.333	32.333	4.042
19	36222	19	2.333	2.667	2.333	2.333	3.667	2.667	2.000	20.667	2.583
20	36223	20	2.000	1.333	2.667	3.667	3.333	3.667	5.333	25.333	3.167
21	36224	21	5.667	6.667	3.667	4.000	2.667	2.333	2.000	29.667	3.708
22	36225	22	2.667	3.000	4.000	4.000	4.667	2.333	3.000	26.000	3.250
23	36226	23	3.667	3.667	3.333	3.333	4.333	3.333	3.000	28.667	3.583
24	36227	24	1.333	2.667	1.000	3.667	4.000	2.667	1.667	18.333	2.292
25	36228	25	3.000	3.000	2.667	4.000	4.333	4.333	1.333	25.333	3.167
26	36229	26	2.667	5.000	3.667	2.000	1.000	2.667	2.667	22.333	2.792
27	36230	27	2.333	2.000	1.667	1.333	.667	1.333	2.333	15.333	1.917
28	36231	28	1.333	.667	2.667	3.000	2.000	1.333	1.333	14.333	1.792
29	36232	29	2.667	4.333	3.333	2.667	1.667	2.667	1.667	21.667	2.708
30	36233	30	1.000	3.000	3.000	2.333	2.667	2.000	1.667	16.667	2.083
31	36234	31	2.000	1.667	1.667	2.333	1.667	2.333	3.333	16.667	2.083

# GEOMAGNETIC PLANETARY INDICES

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

113



JANUARY 1958

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	I-----SOLAR FLUX(10.7CM OTTAWA)-----I	1--RELATIVE ZURICH SUNSPOT NUMBER--1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1						
		DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY						
		54-DAY	81-DAY	54-DAY	81-DAY						
1	36204	1	261.0	288.6	276.1	278.8	1	214	238.9	227.4	234.3
2	36205	2	267.0	288.3	276.7	278.6	1	213	237.7	227.8	233.9
3	36206	3	266.0	289.4	277.3	279.3	1	200	238.1	227.4	233.5
4	36207	4	265.0	290.1	277.6	278.1	1	217	238.8	227.1	232.9
5	36208	5	250.0	290.7	277.5	277.6	1	191	240.3	226.3	232.0
6	36209	6	258.0	292.4	277.6	277.5	1	192	241.9	225.8	231.3
7	36210	7	259.0	294.1	277.7	277.0	1	205	243.9	225.7	231.0
8	36211	8	259.0	295.8	278.0	276.6	1	210	245.9	226.3	231.0
9	36212	9	263.0	297.2	278.3	276.1	1	232	248.5	227.3	231.0
10	36213	10	278.0	299.0	279.2	276.0	1	252	251.6	228.6	231.2
11	36214	11	277.0	300.3	279.7	276.0	1	253	254.6	229.9	231.3
12	36215	12	294.0	301.7	280.4	276.0	1	255	257.1	231.0	231.3
13	36216	13	315.0	302.9	281.4	276.4	1	271	259.5	232.2	231.3
14	36217	14	326.0	304.0	282.3	277.2	1	279	261.5	233.0	231.8
15	36218	15	313.0	304.6	282.6	277.7	1	291	263.1	233.5	231.7
16	36219	16	301.0	303.2	282.9	277.8	1	278	262.9	234.0	231.7
17	36220	17	289.0	300.8	282.9	277.3	1	247	260.9	234.2	230.8
18	36221	18	263.0	296.8	282.7	276.3	1	230	257.7	234.6	229.6
19	36222	19	241.0	291.5	282.3	275.0	1	212	252.9	234.8	228.3
20	36223	20	254.0	287.0	282.2	274.2	1	190	246.8	234.6	226.9
21	36224	21	242.0	282.3	281.9	273.5	1	171	240.0	233.8	225.7
22	36225	22	229.0	277.4	281.5	272.7	1	173	233.9	233.0	224.8
23	36226	23	212.0	272.4	280.2	272.0	1	182	230.4	233.0	224.2
24	36227	24	213.0	268.3	278.6	271.7	1	137	225.9	231.2	223.2
25	36228	25	206.0	265.4	277.4	271.3	1	137	220.8	229.8	222.4
26	36229	26	222.0	263.3	276.2	271.0	1	143	215.9	228.1	222.0
27	36230	27	202.0	260.3	274.7	270.5	1	169	212.7	226.8	221.9
28	36231	28	191.0	257.7	273.1	269.9	1	160	210.7	224.8	221.9
29	36232	29	196.0	255.0	271.7	269.5	1	130	207.7	222.7	221.1
30	36233	30	183.0	252.0	270.7	268.9	1	110	204.3	221.2	219.7
31	36234	31	189.0	249.1	269.6	266.1	1	132	201.2	220.0	218.4

MONTHLY AVERAGE 251.2  
MONTHLY SMOOTHED 243.3

202.5  
199.0

FEBRUARY 1958

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY	DAY OF YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	36235	32	2.667	.667	2.333	2.333	3.000	1.333	1.667	2.667	16.667	2.083
2	36236	33	2.667	2.333	2.667	3.000	2.333	1.333	1.667	.333	16.333	2.042
3	36237	34	.667	1.333	1.000	1.333	3.000	1.333	2.000	2.000	12.667	1.583
4	36238	35	2.667	.333	1.000	3.000	3.667	3.333	4.667	3.667	22.333	2.792
5	36239	36	3.333	4.333	3.667	4.000	4.667	3.667	4.667	4.667	33.000	4.125
6	36240	37	4.000	4.333	4.333	4.333	4.333	4.667	3.000	4.333	33.333	4.167
7	36241	38	4.000	3.667	4.000	4.000	3.333	4.000	4.000	4.000	31.000	3.875
8	36242	39	3.667	4.667	4.000	4.000	3.667	3.667	4.000	4.000	31.667	3.958
9	36243	40	4.000	4.000	2.000	2.667	2.667	3.333	4.000	3.000	25.667	3.208
10	36244	41	4.000	3.667	1.667	2.000	2.333	5.000	4.667	4.333	27.667	3.458
11	36245	42	9.000	8.333	8.667	8.333	8.000	5.333	6.000	6.000	59.667	7.458
12	36246	43	6.000	5.667	6.333	5.333	4.000	4.667	6.000	4.333	42.333	5.292
13	36247	44	3.667	1.667	3.333	3.667	4.333	3.667	3.000	2.333	25.667	3.208
14	36248	45	4.000	5.000	4.000	3.000	3.333	4.333	2.333	2.000	28.000	3.500
15	36249	46	1.667	1.000	1.000	2.333	2.333	2.667	2.333	2.667	16.000	2.000
16	36250	47	2.333	.667	1.333	3.333	3.000	4.000	3.333	3.000	21.000	2.625
17	36251	48	4.000	4.667	4.000	3.667	4.667	4.000	4.667	4.000	33.667	4.208
18	36252	49	4.000	5.000	4.333	4.333	4.000	3.333	5.000	3.667	33.667	4.208
19	36253	50	4.333	3.667	4.667	3.667	3.333	3.000	4.000	3.667	30.333	3.792
20	36254	51	3.667	4.000	3.000	4.000	4.000	3.000	4.667	4.667	31.000	3.875
21	36255	52	3.333	4.667	4.333	3.667	4.333	3.000	4.667	5.000	33.000	4.125
22	36256	53	4.667	4.000	3.667	4.000	3.667	3.000	3.667	4.000	30.667	3.833
23	36257	54	4.333	4.000	4.000	3.667	3.000	3.333	3.000	2.667	28.000	3.500
24	36258	55	2.333	2.667	2.000	2.667	2.667	1.667	1.667	.667	16.333	2.042
25	36259	56	.667	2.000	2.667	2.000	.667	.667	1.333	.667	10.667	1.333
26	36260	57	2.000	2.000	2.667	1.333	1.333	1.000	1.667	1.333	14.000	1.750
27	36261	58	2.667	1.000	1.000	1.000	1.667	2.000	3.333	3.667	16.333	2.042
28	36262	59	2.000	2.333	3.333	4.000	4.333	2.667	2.333	2.000	23.000	2.875

FEBRUARY 1958

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	36235	32	12	3	9	9	15	5	6	12	8.875				.4
2	36236	33	12	9	12	15	9	5	6	2	8.750				.4
3	36237	34	3	5	4	5	15	5	7	7	6.375				.2
4	36238	35	12	2	4	15	22	18	39	22	16.750				1.1
5	36239	36	18	32	22	27	39	22	39	39	29.750				1.4
6	36240	37	27	32	32	32	32	39	15	32	30.125				1.3
7	36241	38	27	22	27	27	18	27	27	27	25.250				1.2
8	36242	39	22	39	27	27	22	22	27	27	26.625				1.2
9	36243	40	27	27	7	12	12	18	27	15	18.125				1.0
10	36244	41	27	22	6	7	9	48	39	32	23.750				1.2
11	36245	42	400	236	300	236	207	56	80	80	199.375				2.0
12	36246	43	80	67	94	56	27	39	80	32	59.375				1.8
13	36247	44	22	6	18	22	32	22	15	9	18.250				1.0
14	36248	45	27	48	27	15	18	32	9	7	22.875				1.2
15	36249	46	6	4	4	9	9	12	9	12	8.125				.5
16	36250	47	9	3	5	18	15	27	18	15	13.750				.9
17	36251	48	27	39	27	22	39	27	39	27	30.875				1.3
18	36252	49	27	40	32	32	27	18	48	22	31.750				1.3
19	36253	50	32	22	39	22	18	15	27	22	24.625				1.1
20	36254	51	22	27	15	27	27	15	39	39	26.375				1.2
21	36255	52	18	39	32	22	32	15	39	48	30.625				1.3
22	36256	53	39	27	22	27	22	15	22	27	25.125				1.1
23	36257	54	32	27	27	22	15	18	15	12	21.000				.9
24	36258	55	9	12	7	12	12	6	6	3	8.375				.3
25	36259	56	3	7	12	7	3	3	5	3	5.375				.2
26	36260	57	7	7	12	7	5	4	6	5	6.625				.2
27	36261	58	12	4	4	4	6	7	18	22	9.625				.5
28	36262	59	7	9	18	27	32	12	9	7	15.125				.8

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

117

MARCH 1958

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM	AVG.
			KP	KP	KP	KP	KP	KP	KP	KP	KP	KP
1	36263	60	3.333	1.333	1.000	1.000	1.000	1.000	1.000	1.667	12.000	1.500
2	36264	61	.667	2.000	3.333	2.667	1.667	.333	.333	1.333	12.333	1.542
3	36265	62	1.000	2.000	2.000	3.333	3.667	4.000	5.000	4.333	25.333	3.167
4	36266	63	5.000	4.667	4.000	3.667	4.000	3.333	4.000	3.333	32.000	4.000
5	36267	64	3.333	4.000	6.667	5.000	4.000	3.667	3.667	4.667	35.000	4.375
6	36268	65	5.333	5.333	4.000	4.000	4.333	4.000	4.000	4.333	35.333	4.417
7	36269	66	3.667	5.333	4.333	3.667	3.667	3.667	3.333	3.333	31.000	3.875
8	36270	67	5.000	4.333	4.333	3.333	3.333	2.000	2.667	2.667	27.667	3.458
9	36271	68	4.000	4.000	3.667	4.000	3.667	3.000	2.667	1.667	26.667	3.333
10	36272	69	3.667	4.000	2.333	2.667	3.333	3.667	3.667	2.667	26.000	3.250
11	36273	70	4.000	1.667	1.000	3.000	3.667	4.000	4.667	4.667	26.667	3.333
12	36274	71	7.000	7.000	6.667	4.667	4.333	4.333	3.667	3.000	40.667	5.083
13	36275	72	4.667	5.333	5.667	5.000	5.667	5.000	5.000	2.333	38.667	4.833
14	36276	73	2.667	1.333	.667	1.667	5.667	4.667	2.667	2.667	22.000	2.750
15	36277	74	2.333	4.333	4.667	4.667	3.667	4.000	2.667	2.000	28.333	3.542
16	36278	75	4.667	4.333	2.333	2.333	1.333	2.000	2.667	3.333	23.000	2.875
17	36279	76	2.667	3.333	4.667	5.000	4.000	4.000	4.667	1.667	30.000	3.750
18	36280	77	3.000	4.000	4.667	2.667	4.333	5.667	5.333	3.667	33.333	4.167
19	36281	78	4.000	4.333	4.667	4.000	4.667	5.333	5.667	5.667	38.333	4.792
20	36282	79	5.000	5.000	4.333	4.000	3.667	4.000	5.000	5.000	36.000	4.500
21	36283	80	4.000	5.000	4.000	3.333	4.667	5.000	3.333	4.667	34.000	4.250
22	36284	81	6.000	4.667	2.000	1.667	2.667	1.667	2.000	4.333	25.000	3.125
23	36285	82	4.000	4.000	3.333	3.333	2.667	3.000	4.667	2.333	27.333	3.417
24	36286	83	3.333	4.000	3.333	3.333	3.667	5.000	4.667	4.000	31.333	3.917
25	36287	84	5.000	3.333	4.000	3.333	3.667	6.000	4.000	4.000	33.333	4.167
26	36288	85	3.333	3.000	2.333	4.000	5.000	5.333	3.667	3.667	30.333	3.792
27	36289	86	4.000	2.667	2.667	3.000	1.667	3.000	3.000	4.333	24.333	3.042
28	36290	87	2.667	3.333	3.000	1.667	1.667	4.333	3.000	2.000	22.667	2.833
29	36291	88	3.667	3.333	2.000	1.333	.667	2.667	2.000	2.000	17.667	2.208
30	36292	89	1.333	1.000	4.333	4.667	5.333	5.667	4.000	3.667	30.000	3.750
31	36293	90	3.000	4.333	3.333	3.000	3.000	3.333	3.000	3.000	26.000	3.250

MARCH 1958

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	AP	AVG	MAGNETIC CHARACTER
1	36263	60	18	5	4	4	6	4	4	6	6	6.375	.3
2	36264	61	3	7	18	12	6	2	2	5	6	6.875	.2
3	36265	62	4	7	7	18	22	27	48	32	20	20.625	1.2
4	36266	63	48	39	27	22	27	10	27	18	28	28.250	1.2
5	36267	64	18	27	111	48	27	22	22	39	39	39.250	1.4
6	36268	65	56	56	27	27	32	27	27	32	35	35.500	1.4
7	36269	66	22	56	32	22	22	22	18	18	26	26.500	1.1
8	36270	67	48	32	32	18	18	7	12	12	22	22.375	1.0
9	36271	68	27	27	22	27	22	15	12	6	19	19.750	1.0
10	36272	69	22	27	9	12	18	22	22	12	16	16.000	.9
11	36273	70	27	6	4	15	22	27	39	39	22	22.375	1.1
12	36274	71	132	132	111	39	32	32	22	15	64	64.375	1.6
13	36275	72	39	56	67	48	67	48	48	9	47	47.750	1.5
14	36276	73	12	5	3	6	67	39	12	12	19	19.500	1.2
15	36277	74	9	32	39	39	22	27	12	7	23	23.375	1.2
16	36278	75	39	32	9	9	5	7	12	18	16	16.375	.8
17	36279	76	12	10	39	48	27	27	39	6	27	27.000	1.2
18	36280	77	15	27	39	12	32	67	56	22	33	33.750	1.3
19	36281	78	27	32	39	27	39	56	67	67	44	44.250	1.5
20	36282	79	48	48	32	27	22	27	48	48	37	37.500	1.4
21	36283	80	27	48	27	18	39	48	18	39	33	33.000	1.3
22	36284	81	80	39	7	6	12	6	7	32	23	23.625	1.0
23	36285	82	27	27	18	18	12	15	39	9	20	20.625	1.1
24	36286	83	18	27	18	18	22	48	39	27	27	27.125	1.2
25	36287	84	48	18	27	18	22	60	27	27	33	33.375	1.4
26	36288	85	18	15	9	27	43	56	22	22	27	27.125	1.1
27	36289	86	27	12	12	15	6	15	15	32	16	16.750	.9
28	36290	87	12	18	15	6	6	32	15	15	14	14.875	.7
29	36291	88	22	18	7	5	3	12	7	7	10	10.125	.4
30	36292	89	5	4	32	39	56	67	27	22	31	31.500	1.3
31	36293	90	15	32	18	15	15	18	15	15	17	17.875	.8

MARCH 1958

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	36263	60	1	196.0	211.0	228.4	249.7
2	36264	61	1	210.0	210.5	227.5	249.7
3	36265	62	1	224.0	210.1	226.8	249.8
4	36266	63	1	233.0	209.4	226.3	249.9
5	36267	64	1	234.0	208.7	225.4	250.0
6	36268	65	1	252.0	208.4	225.0	250.1
7	36269	66	1	257.0	208.6	224.3	250.1
8	36270	67	1	252.0	209.2	223.1	249.7
9	36271	68	1	256.0	210.0	221.8	249.2
10	36272	69	1	243.0	210.5	220.5	248.6
11	36273	70	1	236.0	210.8	219.3	247.3
12	36274	71	1	233.0	211.1	218.3	245.8
13	36275	72	1	239.0	212.2	217.9	244.2
14	36276	73	1	220.0	213.1	217.6	242.2
15	36277	74	1	217.0	214.2	216.9	240.3
16	36278	75	1	214.0	215.3	216.4	238.4
17	36279	76	1	206.0	216.4	216.0	236.5
18	36280	77	1	210.0	217.7	216.0	234.8
19	36281	78	1	220.0	219.5	216.1	233.5
20	36282	79	1	232.0	221.6	216.6	232.9
21	36283	80	1	224.0	223.3	216.6	232.2
22	36284	81	1	266.0	225.9	217.8	231.9
23	36285	82	1	260.0	228.2	219.2	232.0
24	36286	83	1	274.0	230.6	220.6	232.1
25	36287	84	1	256.0	232.6	222.0	232.0
26	36288	85	1	284.0	235.7	223.8	232.2
27	36289	86	1	302.0	239.6	225.7	232.9
28	36290	87	1	295.0	243.3	227.1	233.3
29	36291	88	1	333.0	247.9	229.2	234.3
30	36292	89	1	345.0	252.3	231.2	235.3
31	36293	90	1	339.0	256.3	232.8	236.3

MONTHLY AVERAGE 251.0

190.7

MONTHLY SMOOTHED 245.5

201.3

APRIL 1958

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP
		1	2	3	4	5	6	7	8									
1	36294	91	3.667	3.667	2.667	2.667	2.667	3.333	3.333	3.333	3.333	4.000	3.667	3.667	3.333	27.000	3.375	
2	36295	92	3.333	4.333	5.333	5.000	4.333	5.000	4.333	5.000	3.667	3.667	3.333	3.333	3.333	34.333	4.292	
3	36296	93	4.333	4.000	3.333	2.667	3.333	2.667	2.333	2.333	3.667	3.333	3.667	26.000	3.250			
4	36297	94	3.333	3.667	3.667	4.667	4.667	4.667	4.667	4.000	5.667	5.667	5.667	34.333	4.292			
5	36298	95	4.667	5.333	4.000	3.667	3.667	3.333	3.333	3.333	2.667	3.333	3.333	3.333	3.792			
6	36299	96	4.000	2.667	3.000	4.000	3.000	3.667	3.333	3.667	3.333	5.000	28.667	3.583				
7	36300	97	3.333	4.000	3.000	3.000	3.000	3.000	3.333	3.000	2.667	3.000	25.667	3.208				
8	36301	98	2.667	2.667	1.667	1.667	1.667	1.667	2.000	2.333	3.000	17.667	2.208					
9	36302	99	2.333	3.333	1.000	1.000	1.000	1.000	1.667	2.667	3.000	16.000	2.000					
10	36303	100	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.333	2.333	10.000	1.250					
11	36304	101	2.000	2.333	.667	2.333	1.000	1.333	1.000	1.667	3.000	14.333	1.792					
12	36305	102	.333	1.000	.667	1.333	1.000	2.000	2.000	2.667	2.667	11.500	1.375					
13	36306	103	2.000	1.333	2.000	1.000	1.333	1.667	1.667	1.667	1.667	12.900	1.500					
14	36307	104	1.667	2.000	2.333	4.333	4.667	4.000	3.333	3.333	3.333	25.667	3.208					
15	36308	105	4.667	5.000	4.333	3.000	2.667	2.667	3.333	3.667	5.000	34.000	4.250					
16	36309	106	4.000	4.000	4.333	4.000	4.000	4.000	4.667	5.000	4.667	41.000	5.125					
17	36310	107	5.667	5.000	4.333	4.000	4.333	6.000	5.667	5.667	6.000	41.000	5.125					
18	36311	108	5.000	5.333	4.667	4.000	4.333	5.000	5.000	5.333	38.667	4.833						
19	36312	109	3.667	3.333	3.000	4.333	3.333	3.667	4.333	4.333	30.000	3.750						
20	36313	110	3.000	3.667	3.667	1.667	2.667	2.667	2.667	3.667	23.667	2.958						
21	36314	111	2.000	3.333	2.333	2.667	2.667	3.000	4.333	4.333	22.333	2.792						
22	36315	112	2.333	2.333	2.333	2.333	1.000	1.333	1.333	.333	13.333	1.667						
23	36316	113	.000	.000	.667	2.000	2.000	3.333	3.333	2.000	3.000	13.000	1.625					
24	36317	114	3.333	4.000	3.667	2.000	2.000	3.333	3.333	1.667	2.667	22.667	2.833					
25	36318	115	3.667	3.667	2.000	2.000	3.333	3.333	1.000	.333	17.333	2.167						
26	36319	116	.333	.333	1.000	1.000	2.667	4.667	4.333	2.333	16.667	2.083						
27	36320	117	1.000	1.667	2.333	1.000	1.333	3.000	3.667	3.000	17.000	2.125						
28	36321	118	3.333	4.000	3.333	3.333	4.000	3.667	4.000	4.667	30.333	3.792						
29	36322	119	4.667	5.333	4.000	4.000	4.000	4.333	3.333	3.667	33.333	4.167						
30	36323	120	4.333	4.333	4.000	3.333	3.333	4.333	4.333	4.667	32.667	4.083						



APRIL 1958

GEOMAGNETIC PLANETARY INDICES  
PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY YEAR	AP												MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	AP	AP	AP	AP	
1	36294	91	22	22	12	12	18	18	22	22	19.125			1.0
2	36295	92	18	32	56	48	32	48	22	18	34.250			1.2
3	36296	93	32	27	18	12	9	9	18	22	18.375			1.0
4	36297	94	18	22	22	22	39	27	67	67	35.500			1.3
5	36298	95	39	56	27	22	18	18	12	10	26.250			1.1
6	36299	96	27	12	15	27	15	22	18	48	23.000			1.2
7	36300	97	18	27	15	15	15	15	18	15	17.250			.8
8	36301	98	12	12	6	6	6	7	9	15	9.125			.4
9	36302	99	9	18	4	4	4	6	12	15	9.000			.3
10	36303	100	5	4	4	4	4	4	5	9	4.875			.1
11	36304	101	7	9	3	9	4	5	6	15	7.250			.4
12	36305	102	2	4	3	5	4	7	7	12	5.500			.1
13	36306	103	7	5	7	4	4	5	6	6	5.500			.2
14	36307	104	6	7	9	32	39	27	18	18	19.500			1.0
15	36308	105	39	48	32	15	12	12	22	18	24.750			1.0
16	36309	106	27	27	32	27	27	27	39	48	31.750			1.3
17	36310	107	67	48	37	27	32	60	67	80	54.125			1.5
18	36311	108	48	56	39	27	32	48	48	56	47.250			1.4
19	36312	109	22	18	15	32	18	22	32	32	23.875			1.1
20	36313	110	15	22	22	6	12	12	12	22	15.375			.9
21	36314	111	7	18	9	12	12	15	7	32	14.000			.8
22	36315	112	9	9	9	9	4	5	5	2	6.500			.2
23	36316	113	0	0	3	7	7	10	7	15	7.125			.4
24	36317	114	18	27	22	7	7	18	6	12	14.625			.7
25	36318	115	22	22	7	7	18	5	4	2	10.875			.5
26	36319	116	2	2	4	4	12	39	32	9	13.000			.8
27	36320	117	4	6	9	4	5	15	22	15	10.000			.6
28	36321	118	18	27	18	18	27	22	27	37	24.500			1.1
29	36322	119	39	56	27	27	32	32	18	22	31.000			1.2
30	36323	120	32	32	27	18	13	32	32	39	28.750			1.2

APRIL 1958

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	1- 54-DAY DAILY	5- 27-DAY DAILY	5- 54-DAY DAILY	5- 81-DAY DAILY	5- 27-DAY DAILY	5- 54-DAY DAILY	5- 81-DAY DAILY
1	36294	91	1	331.0	259.9	234.3	236.9	182.1
2	36295	92	1	326.0	262.6	235.5	237.5	183.9
3	36296	93	1	302.0	264.3	236.4	237.6	185.1
4	36297	94	1	295.0	265.9	237.5	237.4	186.6
5	36298	95	1	290.0	267.1	238.6	236.9	188.1
6	36299	96	1	289.0	268.8	239.7	236.6	189.3
7	36300	97	1	283.0	270.6	240.7	236.4	190.6
8	36301	98	1	272.0	272.0	241.6	236.2	192.0
9	36302	99	1	250.0	272.4	242.3	236.0	192.6
10	36303	100	1	244.0	273.0	243.1	236.1	193.3
11	36304	101	1	216.0	273.0	243.6	235.6	193.5
12	36305	102	1	196.0	272.3	243.8	235.0	193.4
13	36306	103	1	179.0	271.2	243.8	234.4	193.1
14	36307	104	1	177.0	270.0	243.9	234.0	192.3
15	36308	105	1	188.0	268.9	244.1	233.7	191.2
16	36309	106	1	197.0	267.5	244.5	233.5	190.0
17	36310	107	1	207.0	266.9	245.1	233.4	189.6
18	36311	108	1	213.0	264.9	245.4	233.5	189.5
19	36312	109	1	221.0	263.2	245.7	233.9	189.7
20	36313	110	1	226.0	261.4	246.0	234.2	189.8
21	36314	111	1	229.0	260.3	246.4	234.8	190.5
22	36315	112	1	237.0	258.6	247.2	235.4	191.6
23	36316	113	1	235.0	256.1	247.9	235.9	193.0
24	36317	114	1	244.0	254.2	248.8	236.2	194.3
25	36318	115	1	248.0	251.1	249.5	236.5	196.4
26	36319	116	1	245.0	247.4	249.9	236.6	197.2
27	36320	117	1	247.0	244.0	250.1	236.5	197.4
28	36321	118	1	258.0	241.3	250.6	236.6	197.3
29	36322	119	1	255.0	238.6	250.6	236.5	197.1
30	36323	120	1	265.0	237.3	250.8	236.7	196.9

MONTHLY AVERAGE 245.5  
MONTHLY SMOOTHED 242.2

196.0  
196.8

MAY 1958

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM	AVG.
											KP	KP
1	36324	121	3.667	3.000	3.333	3.667	2.333	3.667	4.000	4.333	28.000	3.500
2	36325	122	3.000	4.000	2.667	2.000	.667	1.333	2.667	1.667	18.000	2.250
3	36326	123	1.667	2.667	.667	1.667	1.333	1.333	2.000	2.333	13.667	1.708
4	36327	124	2.667	2.333	3.000	1.667	1.667	1.333	.667	2.667	16.000	2.000
5	36328	125	2.333	2.667	1.667	1.000	1.333	2.667	3.667	3.667	19.000	2.375
6	36329	126	3.333	2.667	2.333	1.667	1.333	2.000	2.000	3.333	18.666	2.333
7	36330	127	1.333	1.667	1.667	1.333	.667	.667	2.000	2.667	12.000	1.500
8	36331	128	1.667	1.667	2.000	1.667	3.333	2.667	2.667	3.667	19.333	2.417
9	36332	129	2.000	1.667	3.667	3.000	3.000	1.000	1.667	2.000	19.000	2.250
10	36333	130	3.000	2.667	2.667	4.000	3.667	4.000	4.000	3.333	27.333	3.417
11	36334	131	.667	.667	3.333	3.667	2.000	2.667	2.333	1.000	16.333	2.042
12	36335	132	.333	.333	2.000	1.333	2.000	4.000	4.333	4.333	18.667	2.333
13	36336	133	3.667	2.333	3.000	3.333	4.667	4.333	4.333	5.667	31.333	3.917
14	36337	134	5.667	4.333	5.000	3.667	4.667	3.667	4.333	4.667	36.000	4.500
15	36338	135	4.000	5.000	3.667	2.667	3.333	4.000	4.667	3.667	31.000	3.875
16	36339	136	4.000	3.333	2.667	2.333	3.000	4.000	2.667	2.000	24.000	3.000
17	36340	137	3.000	3.667	2.333	2.667	3.667	3.333	3.333	3.333	25.333	3.167
18	36341	138	4.333	2.667	2.667	3.333	3.000	3.667	3.000	3.000	25.667	3.208
19	36342	139	2.000	3.000	3.667	1.667	2.000	1.333	2.333	2.667	18.667	2.333
20	36343	140	1.667	1.000	.667	1.667	1.333	.667	1.000	2.000	9.667	1.208
21	36344	141	2.667	3.000	1.667	.333	1.000	1.000	1.333	.667	11.667	1.458
22	36345	142	1.000	.667	.667	1.333	2.333	2.000	.667	1.333	10.000	1.250
23	36346	143	2.333	1.000	.667	.667	.667	.667	1.000	1.000	8.000	1.000
24	36347	144	.000	.333	.333	1.000	1.333	.667	.333	.333	4.333	.542
25	36348	145	.333	1.333	1.000	.667	.333	2.667	3.333	4.333	14.000	1.750
26	36349	146	4.000	3.333	3.000	4.333	6.667	5.667	3.333	4.000	34.333	4.292
27	36350	147	3.000	2.667	2.333	4.000	4.333	3.667	4.000	5.000	29.000	3.625
28	36351	148	4.667	3.667	3.000	4.667	2.667	2.667	3.333	3.333	25.000	3.125
29	36352	149	5.000	5.000	5.667	6.333	5.667	4.667	4.667	3.333	40.333	5.042
30	36353	150	3.333	3.333	2.667	2.000	2.000	2.333	1.333	3.333	20.333	2.542
31	36354	151	2.333	4.000	2.000	3.333	4.333	6.333	7.667	8.000	38.000	4.750

MAY 1958

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP								MAGNETIC CHARACTER	
			1	2	3	4	5	6	7	8		
1	36324	121	22	15	18	22	9	22	27	32	20.875	1.0
2	36325	122	15	27	12	7	3	5	12	6	10.875	.7
3	36326	123	6	12	3	6	5	5	7	9	6.625	.2
4	36327	124	12	9	15	6	6	5	3	12	8.500	.3
5	36328	125	9	12	6	4	5	12	22	22	11.500	.7
6	36329	126	18	12	9	6	5	7	7	18	.010	.3
7	36330	127	5	6	6	5	3	3	7	12	5.875	.2
8	36331	128	6	6	7	6	18	12	12	22	11.125	.8
9	36332	129	7	6	22	15	15	4	6	7	10.250	.7
10	36333	130	15	12	12	27	22	27	27	18	20.000	1.0
11	36334	131	3	3	18	22	7	12	9	4	9.750	.5
12	36335	132	2	2	7	5	7	27	32	32	14.250	.8
13	36336	133	22	9	15	18	39	32	32	67	29.250	1.3
14	36337	134	67	32	48	22	39	22	32	39	37.625	1.4
15	36338	135	27	48	22	12	18	27	39	22	26.875	1.2
16	36339	136	27	18	12	9	15	27	12	7	15.875	.9
17	36340	137	15	22	9	12	22	18	18	18	16.750	.9
18	36341	138	32	12	12	18	15	22	15	15	17.625	1.0
19	36342	139	7	15	22	6	7	5	9	12	10.375	.6
20	36343	140	6	4	3	5	5	3	4	7	4.625	.2
21	36344	141	12	15	6	2	4	4	5	3	6.375	.2
22	36345	142	4	3	3	5	9	7	3	5	4.875	.1
23	36346	143	9	4	3	3	3	3	4	4	4.125	.1
24	36347	144	0	2	2	4	5	3	2	2	2.500	.1
25	36348	145	2	5	4	3	2	12	18	32	9.750	.6
26	36349	146	27	10	15	32	11	67	18	27	39.375	1.3
27	36350	147	15	12	9	27	32	22	27	48	24.000	1.1
28	36351	148	39	22	15	6	12	12	18	18	17.750	1.0
29	36352	149	48	48	67	94	67	39	39	18	52.500	1.6
30	36353	150	18	18	12	7	7	9	5	18	11.750	.8
31	36354	151	9	27	7	18	32	94	179	207	71.625	1.7

MAY 1958

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1--SOLAR FLUX(10.7CM OTTAWA)	1--RELATIVE ZURICH SUNSPOT NUMBER	1--RUNNING MEANS	1--RUNNING MEANS	1--RUNNING MEANS	1--RUNNING MEANS	1--RUNNING MEANS	1--RUNNING MEANS
DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	54-DAY	81-DAY
1	36324	121	266.0	236.2	251.0	237.1	250	187.1	197.9
2	36325	122	276.0	235.7	251.4	237.6	246	187.1	199.0
3	36326	123	278.0	235.3	252.0	238.2	269	188.3	200.6
4	36327	124	280.0	235.1	252.9	238.8	268	189.1	202.4
5	36328	125	269.0	235.0	253.5	239.4	267	189.9	204.3
6	36329	126	263.0	235.5	254.0	240.0	223	190.6	205.6
7	36330	127	249.0	235.7	254.4	240.6	198	190.6	206.3
8	36331	128	236.0	236.4	254.7	241.2	177	191.3	206.5
9	36332	129	239.0	238.0	255.2	241.9	150	191.7	206.4
10	36333	130	209.0	239.1	255.2	242.3	181	193.7	206.8
11	36334	131	211.0	240.4	255.2	242.7	166	196.3	206.8
12	36335	132	209.0	241.2	255.0	243.2	172	199.0	207.1
13	36336	133	203.0	241.4	254.5	243.5	114	199.2	206.4
14	36337	134	194.0	240.9	253.9	243.7	103	197.6	205.4
15	36338	135	196.0	240.3	252.6	243.7	106	195.3	204.4
16	36339	136	194.0	239.3	251.2	243.6	110	192.3	202.9
17	36340	137	194.0	238.1	249.8	243.4	116	189.4	201.3
18	36341	138	197.0	236.9	248.6	243.3	123	186.1	200.3
19	36342	139	197.0	235.4	247.0	243.3	140	183.5	199.3
20	36343	140	197.0	234.0	245.1	243.3	132	180.9	197.5
21	36344	141	199.0	232.4	243.3	243.3	162	180.2	195.1
22	36345	142	199.0	230.6	240.8	243.2	165	178.7	192.6
23	36346	143	206.0	229.1	238.2	242.9	171	178.3	189.5
24	36347	144	211.0	227.8	235.9	242.7	199	178.6	186.8
25	36348	145	207.0	225.9	233.6	242.3	189	178.2	185.0
26	36349	146	210.0	224.2	231.4	241.8	170	176.9	182.7
27	36350	147	201.0	221.9	229.6	241.1	157	175.0	181.1
28	36351	148	202.0	219.5	227.8	240.5	160	171.6	179.4
29	36352	149	219.0	217.4	226.5	240.0	192	169.6	178.4
30	36353	150	213.0	215.0	225.1	239.7	178	166.3	177.3
31	36354	151	209.0	212.3	223.7	239.3	181	163.0	176.1

MONTHLY AVERAGE 220.4  
MONTHLY SMOOTHED 237.8175.3  
191.4

GEOMAGNETIC PLANETARY INDICES

127

24

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

MONTHLY AVERAGE	220.5
MONTHLY SMOOTHED	233.6

171.5  
185.8



JULY 1958

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36385 182	5.000	3.333	3.333	3.333	2.667	3.000	2.667	1.667	1.667	23.333	2.917
2	36386 183	.667	1.333	1.667	1.333	1.333	2.000	2.000	2.333	2.333	13.667	1.708
3	36387 184	2.667	2.000	3.000	2.667	2.333	4.667	4.667	3.000	2.333	22.667	2.833
4	36388 185	2.000	7.667	4.000	3.667	3.667	3.667	4.667	3.667	3.333	27.667	3.458
5	36389 186	2.333	1.667	2.000	2.667	2.667	3.000	2.000	2.000	4.000	19.667	2.458
6	36390 187	2.667	2.333	1.000	1.000	1.000	1.333	1.000	1.333	.333	11.000	1.375
7	36391 188	.667	1.667	2.333	4.000	3.333	3.333	3.333	4.333	3.667	23.333	2.917
8	36392 189	3.000	2.667	7.333	7.667	8.333	9.000	9.000	8.667	8.667	55.333	6.917
9	36393 190	6.333	5.667	6.000	7.000	6.333	5.000	5.000	3.000	5.667	45.000	5.625
10	36394 191	5.000	3.333	2.667	2.333	2.333	2.667	2.000	2.333	3.667	24.000	3.000
11	36395 192	3.667	2.333	2.667	2.333	2.333	2.333	2.333	4.000	3.667	23.333	2.917
12	36396 193	4.000	3.333	4.000	4.333	4.333	3.333	3.667	3.333	2.000	28.000	3.500
13	36397 194	3.667	3.333	3.667	2.333	2.333	1.667	3.000	1.333	3.667	22.667	2.833
14	36398 195	3.000	3.333	4.000	3.333	3.333	2.333	2.667	1.667	1.333	21.666	2.708
15	36399 196	1.333	2.000	1.333	1.333	1.333	2.000	1.000	2.000	2.000	13.000	1.625
16	36400 197	2.000	2.000	1.000	1.333	1.333	2.000	1.667	1.333	2.667	14.000	1.750
17	36401 198	4.000	4.667	4.000	3.333	3.333	1.667	1.333	1.000	.667	20.667	2.583
18	36402 199	3.000	3.333	5.000	3.667	3.667	5.333	5.000	4.667	4.000	34.000	4.250
19	36403 200	2.667	3.000	5.000	2.667	2.667	2.667	2.000	5.000	5.000	28.000	3.500
20	36404 201	4.000	4.667	3.667	3.333	3.333	3.333	4.000	2.667	2.667	28.333	3.542
21	36405 202	2.667	3.000	3.667	2.333	2.333	2.333	6.667	7.333	6.333	34.333	4.292
22	36406 203	4.333	3.333	2.667	3.333	3.333	5.000	3.000	2.667	2.000	26.333	3.292
23	36407 204	1.667	1.333	1.333	2.000	2.000	2.333	1.000	1.333	2.333	13.333	1.667
24	36408 205	2.667	2.000	1.667	2.000	2.000	4.000	4.667	4.000	3.333	24.333	3.042
25	36409 206	2.000	2.333	3.667	4.333	4.333	4.333	3.667	4.333	4.000	28.667	3.583
26	36410 207	4.000	3.000	2.333	3.000	3.000	1.667	1.333	2.000	1.333	18.667	2.333
27	36411 208	2.333	3.667	5.000	4.333	4.333	4.667	2.333	4.667	4.000	31.000	3.875
28	36412 209	4.000	2.667	2.333	1.000	1.000	1.000	1.000	2.333	2.667	17.000	2.125
29	36413 210	2.333	2.333	.667	1.000	1.000	1.333	1.667	4.000	2.333	15.667	1.958
30	36414 211	1.667	2.333	2.333	2.333	1.667	2.333	3.667	3.000	3.333	20.333	2.542
31	36415 212	2.000	1.333	2.333	2.333	2.667	2.000	5.333	3.333	2.333	21.333	2.667

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

131

JULY 1958

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
		182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212
		215.0	219.1	215.0	217.6	224.0	216.3	232.0	215.5	216.0	214.7	203.0	188.0	191.0	182.0	181.0	192.0	188.0	190.0	205.0	200.0	209.0	214.0	213.0	226.0	240.0	260.0	261.0	290.0	285.0	267.0	288.0
		213.8	213.4	213.6	214.0	214.6	215.1	215.9	216.6	217.0	217.3	217.4	217.2	217.1	216.8	216.4	216.2	215.8	215.4	215.4	215.3	215.5	215.4	215.6	215.7	216.1	216.9	217.5	218.3	218.0	220.0	222.4
		221.3	221.6	222.1	222.8	223.4	223.9	224.2	224.5	224.4	224.2	223.9	223.3	222.7	222.0	221.1	220.5	219.8	218.9	218.3	217.5	216.8	216.0	215.2	214.6	214.2	214.2	214.3	215.0	215.6	216.5	217.5
		165	169.3	164	167.7	168.3	168.7	169.1	170.0	169.9	170.7	171.3	171.2	172.6	173.4	174.7	175.8	177.8	179.3	180.5	180.6	181.0	180.7	179.6	178.3	177.7	178.2	181.1	184.3	187.9	190.8	193.0
		163.9	164.1	164.3	165.0	165.6	167.5	169.5	171.4	172.9	174.5	175.4	175.2	175.4	174.9	174.3	173.3	173.1	174.7	173.3	173.9	174.6	174.4	174.4	174.2	173.8	174.9	175.9	176.8	177.8	179.2	180.7
		173.0	173.3	174.1	175.4	176.8	178.1	178.9	179.3	179.3	179.5	179.0	178.0	177.2	176.6	175.8	175.3	174.9	174.7	173.3	173.6	173.6	172.8	171.7	170.5	169.4	169.3	169.8	170.7	172.0	173.1	174.3

MONTHLY AVERAGE 224.1  
MONTHLY SMOOTHED 232.5191.4  
185.2

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

133

AUGUST 1958

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	36416	213	9	6	4	27	32	12	18	9	14.625				.9
2	36417	214	7	7	9	15	22	15	9	9	11.625				.6
3	36418	215	22	15	12	9	12	7	3	3	10.375				.5
4	36419	216	4	6	5	4	5	4	4	4	4.500				.1
5	36420	217	5	4	5	6	7	4	4	4	4.875				.2
6	36421	218	6	5	3	5	3	4	4	7	4.625				.2
7	36422	219	4	5	15	15	27	7	15	5	11.625				.6
8	36423	220	4	4	3	4	7	9	2	3	4.500				.2
9	36424	221	12	9	4	3	5	6	5	12	7.000				.3
10	36425	222	7	6	15	18	18	27	22	15	16.000				.8
11	36426	223	15	12	18	32	9	7	15	9	14.625				.8
12	36427	224	7	12	15	12	7	3	15	12	10.375				.6
13	36428	225	15	12	22	18	6	7	5	5	11.500				.7
14	36429	226	7	4	4	2	0	9	9	18	6.625				.4
15	36430	227	9	18	6	7	7	7	7	9	8.750				.5
16	36431	228	22	12	7	6	12	22	15	4	12.500				.8
17	36432	229	5	6	80	32	111	154	154	111	81.625				1.8
18	36433	230	48	37	22	18	12	7	7	7	20.000				1.1
19	36434	231	15	18	12	15	6	9	9	7	11.375				.6
20	36435	232	6	7	7	4	6	6	3	5	5.500				.1
21	36436	233	5	4	2	9	7	7	5	12	6.375				.2
22	36437	234	67	67	67	22	12	15	15	7	34.000				1.4
23	36438	235	4	22	18	9	9	15	15	15	13.375				.7
24	36439	236	154	179	80	111	94	27	18	15	84.750				1.8
25	36440	237	27	27	18	15	39	5	7	5	17.875				1.0
26	36441	238	6	18	18	27	13	7	9	12	14.375				.8
27	36442	239	32	80	111	111	48	27	80	22	63.875				1.7
28	36443	240	6	7	12	15	12	15	22	12	12.625				.8
29	36444	241	6	9	9	18	15	6	15	12	11.250				.5
30	36445	242	9	9	9	7	15	9	6	9	9.125				.4
31	36446	243	7	9	7	6	6	15	4	0	6.750				.3

AUGUST 1958

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
DAY	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
36416	213	1	274.0	225.8	221.0	218.3	1	262	195.0	181.8	175.4																					
36417	214	1	254.0	226.6	221.1	218.9	1	250	196.3	182.7	177.1																					
36418	215	1	237.0	226.6	221.1	219.5	1	200	195.9	182.7	173.3																					
36419	216	1	216.0	226.0	220.8	219.7	1	177	194.8	182.4	179.2																					
36420	217	1	221.0	226.1	220.6	220.0	1	198	195.0	182.4	180.3																					
36421	218	1	239.0	227.3	221.0	220.6	1	209	195.3	183.0	181.4																					
36422	219	1	235.0	228.4	221.5	221.1	1	223	197.1	184.2	182.6																					
36423	220	1	236.0	230.7	222.2	221.5	1	230	200.8	186.0	183.8																					
36424	221	1	225.0	231.5	222.9	221.9	1	253	205.0	188.8	185.2																					
36425	222	1	222.0	233.0	223.6	222.2	1	244	209.1	191.2	186.3																					
36426	223	1	225.0	234.6	224.5	222.5	1	253	213.4	194.1	187.3																					
36427	224	1	222.0	235.7	225.1	222.7	1	228	216.6	196.2	188.0																					
36428	225	1	236.0	237.5	225.9	223.0	1	220	218.8	198.3	188.3																					
36429	226	1	235.0	239.1	226.6	223.3	1	202	219.6	199.4	188.5																					
36430	227	1	231.0	240.1	227.0	223.6	1	190	219.5	200.0	188.7																					
36431	228	1	215.0	240.7	226.9	223.8	1	177	219.1	199.8	189.0																					
36432	229	1	211.0	240.7	226.8	223.9	1	163	217.9	199.4	189.0																					
36433	230	1	218.0	240.9	226.6	223.9	1	152	216.7	198.7	188.5																					
36434	231	1	214.0	241.1	226.4	224.0	1	128	214.9	197.2	187.9																					
36435	232	1	220.0	240.8	226.0	224.1	1	131	213.4	195.0	187.3																					
36436	233	1	231.0	240.5	226.0	224.2	1	145	212.1	194.9	186.6																					
36437	234	1	239.0	239.7	226.4	224.5	1	160	210.2	194.2	186.7																					
36438	235	1	243.0	239.0	226.9	224.7	1	192	208.5	194.8	186.8																					
36439	236	1	253.0	237.7	227.6	224.8	1	183	206.0	195.1	186.5																					
36440	237	1	263.0	236.9	228.4	224.8	1	198	203.7	195.8	186.4																					
36441	238	1	264.0	236.0	229.2	224.9	1	180	200.4	195.5	186.3																					
36442	239	1	252.0	234.7	229.6	225.1	1	196	197.9	195.5	186.4																					
36443	240	1	244.0	233.6	229.7	225.2	1	202	195.7	195.3	186.4																					
36444	241	1	252.0	233.5	230.0	225.2	1	225	194.8	195.5	186.7																					
36445	242	1	249.0	233.9	230.3	225.4	1	225	195.7	195.3	187.0																					
36446	243	1	259.0	235.5	230.8	225.7	1	210	196.9	195.9	187.2																					

MONTHLY AVERAGE 236.8  
MONTHLY SMOOTHED 233.3

200.2  
184.9

SEPTEMBER 195A

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY OF JULIAN YEAR	1	2	3	4	5	6	7	8	SUM	AVG.
DAY	YEAR	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP
1	36447 244	.000	.333	1.333	2.667	2.333	2.000	.667	.667	10.000	1.250
2	36448 245	1.333	1.333	1.333	1.333	1.667	1.000	.667	1.000	9.667	1.208
3	36449 246	2.000	1.667	4.000	5.333	6.667	6.000	6.667	6.667	39.000	4.875
4	36450 247	5.000	4.333	3.333	3.667	7.333	8.667	8.333	8.333	49.000	6.125
5	36451 248	8.000	7.667	4.333	4.000	3.333	3.667	5.667	3.000	39.667	4.958
6	36452 249	2.333	2.333	1.667	1.333	1.667	1.667	1.667	1.333	14.000	1.750
7	36453 250	1.667	3.333	2.333	3.000	3.000	3.333	3.667	4.000	24.333	3.042
8	36454 251	4.333	3.333	2.333	3.667	1.667	3.667	1.333	5.333	24.667	3.083
9	36455 252	4.000	3.000	3.000	3.667	4.667	3.667	3.667	4.667	30.333	3.792
10	36456 253	3.333	2.333	2.000	2.000	3.333	3.000	2.000	2.667	20.667	2.583
11	36457 254	2.333	2.333	2.000	2.000	1.333	1.667	2.000	1.333	15.000	1.875
12	36458 255	2.000	2.000	1.000	1.333	.667	1.333	1.333	.667	10.333	1.292
13	36459 256	.333	.333	1.000	.667	.667	.667	1.333	1.000	6.000	.750
14	36460 257	.000	1.000	1.333	1.667	1.333	1.000	1.333	1.000	8.667	1.083
15	36461 258	.667	.667	1.000	1.667	1.333	2.000	2.667	2.333	12.333	1.542
16	36462 259	3.333	4.667	4.000	4.667	5.333	5.333	5.333	4.333	37.000	4.625
17	36463 260	4.000	4.000	2.333	2.333	3.333	2.000	1.333	.667	20.000	2.500
18	36464 261	.333	.667	.667	1.000	.667	1.667	2.000	1.333	8.333	1.042
19	36465 262	.667	.333	1.000	2.000	2.000	.333	1.333	.667	8.333	1.042
20	36466 263	1.000	1.333	1.333	.667	.667	.667	1.667	1.667	9.000	1.125
21	36467 264	1.333	.333	.667	1.000	1.000	1.000	1.667	1.000	8.000	1.000
22	36468 265	1.000	.333	.333	.667	.333	1.333	2.000	.667	6.667	.833
23	36469 266	1.667	1.667	1.667	1.000	.667	.667	.667	2.000	10.000	1.250
24	36470 267	2.667	.667	1.000	1.667	1.667	1.000	1.000	2.333	12.000	1.500
25	36471 268	3.333	6.000	6.000	6.000	6.333	6.333	6.000	7.000	47.000	5.875
26	36472 269	5.000	5.000	3.667	4.000	3.333	3.333	2.333	2.333	29.000	3.625
27	36473 270	1.667	1.667	2.333	2.667	2.333	2.667	2.333	3.000	18.667	2.333
28	36474 271	3.000	3.333	2.333	2.667	1.333	1.333	.667	.000	14.667	1.833
29	36475 272	.333	2.333	2.000	2.333	1.333	.667	.333	.333	9.667	1.208
30	36476 273	1.000	.667	1.333	3.667	3.667	3.667	4.667	4.667	23.333	2.917

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

137





OCTOBER 1958

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36477 274	1.667	3.333	3.333	4.333	2.333	1.333	1.667	2.667	4.333	21.667	2.708
2	36478 275	4.000	3.667	3.000	1.667	1.000	1.000	1.000	.667	2.333	17.333	2.167
3	36479 276	2.000	4.000	3.667	2.667	4.000	4.000	4.000	3.333	1.333	25.000	3.125
4	36480 277	1.000	1.000	2.000	.667	2.000	2.000	1.000	.667	1.333	9.667	1.208
5	36481 278	3.667	2.000	2.667	2.333	2.333	2.333	2.667	3.000	3.333	22.000	2.750
6	36482 279	1.333	2.667	1.333	2.333	3.667	2.000	2.000	3.000	3.333	19.667	2.458
7	36483 280	2.333	3.000	3.000	3.000	2.333	3.333	3.333	2.333	3.333	22.667	2.833
8	36484 281	3.667	3.667	3.000	1.667	1.000	.667	.667	.667	1.667	16.000	2.000
9	36485 282	1.333	1.667	.667	1.667	1.000	1.000	1.000	1.333	1.000	9.667	1.208
10	36486 283	.667	1.000	1.000	.333	.667	.667	2.000	1.333	.667	7.667	.958
11	36487 284	2.000	1.000	1.667	1.333	1.333	1.000	1.000	1.333	2.333	11.667	1.458
12	36488 285	.667	.333	.333	.667	.667	.667	1.333	1.333	1.000	6.333	.792
13	36489 286	.333	2.000	2.000	3.000	2.000	2.000	1.333	2.000	1.000	13.667	1.708
14	36490 287	1.000	2.333	1.000	2.000	2.667	2.667	1.333	1.667	2.000	14.000	1.750
15	36491 288	3.000	2.333	2.333	2.333	2.333	2.333	1.667	2.667	2.000	18.667	2.333
16	36492 289	1.667	4.000	3.000	1.667	1.667	1.333	1.333	1.000	1.333	15.333	1.917
17	36493 290	2.000	3.333	2.333	2.333	1.000	1.333	2.333	2.667	2.000	17.000	2.125
18	36494 291	2.333	2.667	2.667	1.667	1.667	1.333	2.000	1.000	1.667	15.333	1.917
19	36495 292	1.000	2.000	1.333	2.333	2.333	2.333	3.333	2.000	2.333	16.667	2.083
20	36496 293	2.667	.667	.667	.667	.667	.667	1.667	2.000	3.000	12.000	1.500
21	36497 294	2.000	3.000	1.667	2.000	2.000	1.667	.667	1.000	1.000	13.000	1.625
22	36498 295	.667	5.333	6.000	4.667	3.333	5.333	5.333	5.667	5.333	36.333	4.542
23	36499 296	4.667	5.333	5.667	5.000	4.667	4.667	4.333	4.667	4.333	38.667	4.833
24	36500 297	4.667	5.000	6.667	6.333	6.667	6.667	7.000	6.333	6.000	48.667	6.083
25	36501 298	4.000	3.000	3.333	1.667	1.667	1.000	1.000	1.000	1.000	16.000	2.000
26	36502 299	.667	2.000	3.667	2.667	2.333	2.333	2.667	3.000	2.000	19.000	2.375
27	36503 300	3.333	3.333	2.333	2.333	1.667	4.333	4.333	6.333	5.333	29.000	3.625
28	36504 301	3.333	2.667	5.333	5.333	5.000	4.667	4.667	4.667	4.000	35.000	4.375
29	36505 302	3.667	3.333	2.667	2.667	2.000	3.000	4.333	4.333	4.667	26.333	3.292
30	36506 303	3.333	2.667	3.000	3.333	3.333	3.667	3.667	3.333	4.333	27.000	3.375
31	36507 304	2.667	3.333	2.333	2.667	2.333	3.667	2.000	2.000	1.667	20.667	2.583

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH		MOD. DAY OF JULIAN		DAY OF YEAR		AP		AP		AP		AP		AP		AP		MAGNETIC CHARACTER	
DAY	MONTH	MOD.	DAY	AP	AP	DAY	YEAR	AP	AP	DAY	YEAR	AP	AP	DAY	YEAR	AP	AP	DAY	MONTH
1	36477	274	6	18	32	9	5	6	12	32	15.000	.9							
2	36478	275	27	22	15	6	4	4	3	9	11.250	.7							
3	36479	276	7	27	22	12	27	18	5	10.125	1.0								
4	36480	277	4	4	7	3	7	4	3	5	4.625	.2							
5	36481	278	22	7	12	9	9	12	15	18	13.000	.3							
6	36482	279	5	12	5	9	22	7	15	18	11.625	.6							
7	36483	280	9	15	15	9	19	9	18	13.500	1.0								
8	36484	281	22	22	15	6	4	3	3	6	10.125	.5							
9	36485	282	5	6	3	6	4	4	5	4	4.625	.1							
10	36486	283	3	4	4	2	3	7	5	3	3.875	.1							
11	36487	284	7	4	6	5	4	4	5	9	5.500	.1							
12	36488	285	3	2	2	3	3	5	5	4	3.375	.0							
13	36489	286	2	7	7	15	7	5	7	4	6.750	.3							
14	36490	287	4	9	4	7	12	5	6	7	6.750	.4							
15	36491	288	15	9	9	9	9	6	12	7	9.500	.7							
16	36492	289	6	27	15	6	5	5	4	5	9.125	.4							
17	36493	290	7	18	9	4	5	9	12	7	8.875	.4							
18	36494	291	9	12	12	6	5	7	4	8	7.625	.2							
19	36495	292	4	7	5	9	9	10	7	9	9.500	.6							
20	36496	293	12	3	3	3	3	6	7	15	6.500	.3							
21	36497	294	7	15	6	7	6	3	4	4	6.500	.2							
22	36498	295	3	56	80	39	18	56	67	56	46.375	1.5							
23	36499	296	39	56	67	48	39	32	39	32	44.000	1.4							
24	36500	297	39	40	111	94	111	132	94	80	88.625	1.8							
25	36501	298	27	15	18	6	4	4	4	4	10.250	.6							
26	36502	299	3	7	22	12	9	12	15	7	10.875	.8							
27	36503	300	18	18	9	9	6	32	94	56	30.250	1.4							
28	36504	301	18	12	56	56	48	39	39	27	36.875	1.4							
29	36505	302	22	18	12	12	7	15	32	39	17.625	1.0							
30	36506	303	18	12	15	18	18	22	18	32	19.125	1.0							
31	36507	304	12	18	9	12	9	22	7	6	11.875	.8							

OCTOBER 1959

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. DAY JULIAN DAY YEAR	I---SOLAR FLUX(10.7CM OTTAWA)-----I---RELATIVE ZURICH SUNSPOT NUMBER--I	I-----RUNNING MEANS-----I	I-----RUNNING MEANS-----I	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY	81-DAY	81-DAY	
1	36477 274	1	232.0	239.9	239.8	236.6	1	223	198.9	198.5	199.2
2	36478 275	1	222.0	238.5	239.7	237.0	1	220	199.4	197.9	200.2
3	36479 276	1	220.0	238.7	239.7	237.4	1	207	198.9	197.2	201.1
4	36480 277	1	216.0	238.9	239.5	237.9	1	175	198.9	195.7	201.6
5	36481 278	1	200.0	238.5	239.1	238.0	1	157	198.8	194.4	201.8
6	36482 279	1	189.0	238.0	238.2	238.0	1	140	197.8	192.9	201.5
7	36483 280	1	189.0	234.7	237.4	238.0	1	125	194.3	191.5	200.9
8	36484 281	1	188.0	232.4	236.6	237.8	1	115	189.5	190.1	199.9
9	36485 282	1	193.0	229.6	236.2	237.7	1	116	183.9	189.0	199.0
10	36486 283	1	199.0	226.4	235.9	237.5	1	121	178.6	188.2	198.1
11	36487 284	1	211.0	223.4	235.8	237.5	1	123	174.5	187.7	197.3
12	36488 285	1	220.0	221.6	235.8	237.6	1	135	171.0	187.8	196.8
13	36489 286	1	226.0	220.2	235.9	237.6	1	138	168.5	187.9	196.4
14	36490 287	1	229.0	219.1	235.9	237.4	1	142	166.7	187.9	196.0
15	36491 288	1	231.0	218.5	235.8	237.1	1	160	165.1	187.9	195.3
16	36492 289	1	254.0	218.9	236.0	237.0	1	219	166.3	188.4	195.1
17	36493 290	1	288.0	221.0	236.6	237.0	1	231	168.8	189.3	194.8
18	36494 291	1	288.0	223.5	237.1	237.0	1	243	172.0	190.1	194.6
19	36495 292	1	298.0	225.3	237.7	237.1	1	238	174.4	191.2	194.2
20	36496 293	1	279.0	227.3	238.2	237.0	1	232	176.6	191.8	193.9
21	36497 294	1	278.0	229.2	238.8	237.1	1	212	178.0	192.0	193.2
22	36498 295	1	272.0	231.1	239.2	237.3	1	241	180.9	192.3	193.1
23	36499 296	1	241.0	231.9	239.1	237.3	1	230	183.2	192.4	193.5
24	36500 297	1	228.0	232.3	238.5	237.5	1	190	183.7	192.0	193.7
25	36501 298	1	192.0	231.0	237.2	237.1	1	176	182.5	191.6	193.4
26	36502 299	1	195.0	229.9	235.6	236.6	1	171	180.8	190.7	192.9
27	36503 300	1	192.0	228.5	234.2	236.1	1	164	179.4	189.4	192.2
28	36504 301	1	210.0	227.7	233.3	235.7	1	179	177.8	188.3	191.6
29	36505 302	1	221.0	227.7	233.1	235.7	1	200	177.0	188.2	190.9
30	36506 303	1	229.0	228.0	233.3	235.8	1	193	176.5	187.7	190.3
31	36507 304	1	223.0	228.3	233.6	235.6	1	210	177.8	188.4	189.8

MONTHLY AVERAGE 227.5  
MONTHLY SMOOTHED 229.8

181.5  
182.2

NOVEMBER 1958

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MUD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36508 305	1.333	1.333	1.333	2.000	2.333	2.333	2.000	1.667	2.000	15.000	1.875
2	36509 306	1.000	1.000	.333	1.333	2.000	2.667	5.333	4.333	2.667	19.667	2.458
3	36510 307	3.000	3.000	4.000	2.000	2.333	3.000	2.000	2.000	2.000	20.333	2.542
4	36511 308	2.000	2.000	3.000	1.000	2.667	3.333	1.000	2.333	2.000	17.333	2.167
5	36512 309	.667	.667	.333	1.000	.667	.333	1.000	.333	.333	4.667	.583
6	36513 310	.333	.333	.667	.667	.667	.667	.667	1.000	1.333	5.667	.708
7	36514 311	.667	.667	1.000	1.333	2.333	2.333	2.333	1.000	1.667	12.667	1.583
8	36515 312	.333	.333	.667	1.000	1.667	.333	1.000	.333	.667	6.000	.750
9	36516 313	.333	.333	2.333	2.000	1.333	.667	.333	.667	.667	8.333	1.042
10	36517 314	.667	.667	2.333	2.667	4.333	2.000	3.000	3.000	2.000	20.000	2.500
11	36518 315	5.000	5.000	4.333	3.667	2.333	2.333	1.333	1.333	.667	21.000	2.625
12	36519 316	.667	.667	1.667	1.000	2.667	3.667	2.333	2.333	2.333	16.667	2.083
13	36520 317	2.667	3.000	2.667	1.333	.667	.667	1.000	.667	.667	12.000	1.500
14	36521 318	1.333	.667	.333	.333	.000	.667	.667	.333	2.000	6.000	.750
15	36522 319	1.667	1.667	1.333	2.667	1.333	2.333	.333	.333	.667	11.000	1.375
16	36523 320	2.333	3.333	2.667	2.667	2.667	2.667	2.000	.333	.667	16.667	2.083
17	36524 321	1.667	2.667	3.333	3.333	2.667	1.667	1.667	1.333	1.667	16.667	2.083
18	36525 322	1.000	.667	.667	3.000	1.667	2.333	2.000	2.333	3.000	16.000	2.000
19	36526 323	1.667	1.333	1.667	1.667	1.667	1.667	2.000	.333	.333	10.667	1.333
20	36527 324	1.333	1.333	.667	.667	1.667	1.333	1.333	.333	.000	8.000	1.000
21	36528 325	1.000	.333	1.000	1.667	1.667	1.000	1.667	.333	.333	7.333	.917
22	36529 326	1.667	1.333	.333	.333	1.000	1.000	.333	.333	.333	6.333	.792
23	36530 327	1.333	.667	1.667	1.667	2.667	3.000	1.667	.667	.667	12.333	1.542
24	36531 328	.000	.000	2.333	3.333	3.333	3.333	2.333	2.000	2.000	15.333	1.917
25	36532 329	.667	1.333	1.000	1.000	1.000	3.000	3.667	3.000	3.000	16.667	2.083
26	36533 330	3.000	2.667	1.667	1.667	2.000	2.000	2.333	2.333	1.667	16.667	2.083
27	36534 331	1.333	3.000	2.000	2.000	2.667	2.333	2.667	2.000	2.000	18.000	2.250
28	36535 332	3.333	4.000	4.000	4.000	3.667	4.000	2.667	2.333	1.667	25.667	3.208
29	36536 333	2.667	3.333	3.000	3.000	3.000	2.667	3.000	.333	1.000	19.000	2.375
30	36537 334	.000	.667	.333	.333	1.000	1.000	.333	.000	.000	3.333	.417

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

143

NOVEMBER 1958

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	YEAR	SOLAR FLUX (10.7CM OTTAWA)					RELATIVE ZURICH SUNSPOT NUMBER				
			DAILY	27-DAY	54-DAY	81-DAY	DAILY	27-DAY	54-DAY	81-DAY	---I	---I
1	36508	305	1	236.0	229.6	234.0	235.9	1	217	180.0	189.4	189.6
2	36509	306	1	243.0	231.6	234.2	236.0	1	212	182.7	190.3	189.5
3	36510	307	1	226.0	233.0	233.8	235.9	1	205	185.7	190.0	189.6
4	36511	308	1	222.0	234.2	233.3	235.8	1	192	188.5	189.0	189.6
5	36512	309	1	224.0	235.4	232.5	235.9	1	177	190.8	187.4	189.6
6	36513	310	1	206.0	235.6	231.0	235.8	1	152	191.9	185.3	189.4
7	36514	311	1	208.0	235.5	229.5	235.7	1	133	192.3	183.4	189.2
8	36515	312	1	193.0	234.5	228.0	235.4	1	114	191.5	181.3	189.0
9	36516	313	1	182.0	232.9	226.5	234.9	1	97	190.0	179.2	189.6
10	36517	314	1	170.0	230.7	224.9	234.2	1	85	187.9	177.3	187.9
11	36518	315	1	167.0	228.3	223.4	233.3	1	84	185.1	175.1	186.9
12	36519	316	1	167.0	225.1	222.0	232.3	1	85	180.1	173.2	185.6
13	36520	317	1	164.0	220.5	220.8	231.2	1	93	175.0	171.9	184.5
14	36521	318	1	167.0	216.0	214.8	230.1	1	97	169.6	170.8	183.3
15	36522	319	1	168.0	211.2	218.3	228.9	1	95	164.3	169.4	182.2
16	36523	320	1	171.0	207.2	217.2	227.9	1	95	159.2	167.9	181.0
17	36524	321	1	175.0	203.4	216.3	227.0	1	80	154.3	166.1	179.5
18	36525	322	1	176.0	199.9	215.5	226.1	1	80	148.4	164.6	177.7
19	36526	323	1	185.0	197.8	214.9	225.3	1	98	143.5	163.3	176.1
20	36527	324	1	189.0	196.3	214.3	224.4	1	106	140.4	162.0	174.8
21	36528	325	1	196.0	196.5	213.8	223.6	1	125	138.5	160.5	173.9
22	36529	326	1	202.0	196.7	213.3	222.7	1	142	137.4	159.1	172.9
23	36530	327	1	216.0	197.6	213.1	222.0	1	155	137.1	158.2	172.0
24	36531	328	1	232.0	198.4	213.1	221.7	1	178	137.0	157.4	171.2
25	36532	329	1	246.0	199.4	213.5	221.9	1	211	137.4	157.2	171.3
26	36533	330	1	267.0	200.8	214.4	222.5	1	237	139.1	157.8	171.5
27	36534	331	1	271.0	202.6	215.4	223.2	1	247	140.4	159.1	172.4
28	36535	332	1	262.0	203.5	216.6	223.9	1	258	142.0	161.0	173.6
29	36536	333	1	266.0	204.4	218.0	224.2	1	259	143.7	163.2	174.7
30	36537	334	1	267.0	205.9	219.4	224.5	1	260	145.7	165.7	175.2

MONTHLY AVERAGE 208.8  
MONTHLY SMOOTHED 228.0

152.3  
190.7

DECEMBER 1958

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36538 335	0.000	0.000	0.000	0.000	0.667	1.000	1.333	1.000	0.333	4.333	0.542
2	36539 336	1.667	1.333	1.667	1.667	3.667	4.333	4.000	4.000	5.333	26.000	3.250
3	36540 337	3.333	3.000	3.000	1.333	1.333	0.667	1.000	1.000	0.667	12.333	1.542
4	36541 338	3.667	3.000	3.000	4.000	5.333	5.667	5.333	6.667	6.000	39.667	4.958
5	36542 339	7.000	4.333	4.333	3.333	2.667	2.000	2.000	1.333	2.000	24.667	3.083
6	36543 340	2.000	1.333	1.333	1.333	3.667	3.667	3.000	1.333	1.333	17.666	2.208
7	36544 341	1.667	2.667	2.667	2.333	1.333	1.333	1.000	0.667	0.667	11.667	1.458
8	36545 342	0.333	0.000	0.000	0.333	2.000	2.333	3.000	4.000	3.333	15.333	1.917
9	36546 343	3.667	3.000	3.000	4.000	2.667	1.667	2.000	0.667	0.667	18.333	2.292
10	36547 344	1.000	2.000	2.000	2.333	0.667	0.333	0.667	0.000	0.333	7.333	0.917
11	36548 345	1.333	2.000	2.000	2.000	2.667	2.000	1.333	1.333	3.333	16.000	2.000
12	36549 346	2.000	2.000	2.000	0.000	1.333	1.333	1.000	2.000	2.333	12.000	1.500
13	36550 347	5.333	5.333	5.333	3.333	3.000	5.667	5.000	6.000	5.333	39.000	4.875
14	36551 348	3.667	3.000	3.000	1.667	2.000	4.000	3.333	4.000	4.000	25.667	3.208
15	36552 349	2.000	2.000	2.000	1.000	2.667	2.000	2.667	3.333	2.667	18.333	2.292
16	36553 350	4.000	4.333	4.333	2.333	3.667	3.333	2.333	2.000	1.000	23.000	2.875
17	36554 351	1.667	1.000	1.667	1.667	2.333	1.667	4.333	6.333	6.000	25.000	3.125
18	36555 352	7.000	5.667	5.667	3.000	2.667	3.333	1.333	1.000	1.333	25.333	3.167
19	36556 353	4.333	4.667	4.667	3.333	4.000	3.667	3.000	2.667	1.667	27.333	3.417
20	36557 354	2.667	3.333	3.333	3.333	3.000	3.000	3.000	2.667	2.333	23.667	2.958
21	36558 355	2.333	2.000	2.000	2.667	2.000	2.333	1.667	2.000	1.333	16.333	2.042
22	36559 356	3.000	1.000	1.000	2.000	1.667	2.333	2.000	3.000	2.333	17.333	2.167
23	36560 357	1.333	1.000	1.000	2.667	3.000	3.333	3.333	3.000	2.333	20.000	2.500
24	36561 358	2.333	2.000	2.000	2.333	2.000	2.000	1.333	1.333	1.667	15.000	1.875
25	36562 359	0.000	0.000	0.000	0.333	1.667	1.333	1.333	1.667	2.667	9.000	1.125
26	36563 360	2.333	2.333	2.333	1.000	2.000	3.333	3.333	3.333	3.333	21.000	2.625
27	36564 361	2.333	3.000	3.000	3.000	3.000	3.333	2.667	1.333	2.000	20.667	2.593
28	36565 362	3.333	2.667	2.667	3.000	2.667	3.000	3.000	2.667	2.333	22.667	2.833
29	36566 363	3.000	2.000	2.000	1.667	1.667	2.667	1.667	2.333	3.000	18.000	2.250
30	36567 364	2.667	1.667	1.667	2.333	2.333	3.667	3.000	2.667	2.667	21.000	2.625
31	36568 365	2.333	1.333	1.333	2.000	1.333	2.667	1.667	2.333	0.667	14.333	1.792



DECEMBER 1958

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	36538	335	0	0	0	3	4	5	4	2	2	2.250			.1
2	36539	336	6	5	6	22	32	27	27	56	56	22.625			1.3
3	36540	337	18	15	5	5	3	4	4	3	3	7.125			.4
4	36541	338	22	15	27	56	67	56	111	80	80	54.250			1.8
5	36542	339	132	32	18	12	7	7	5	7	7	27.500			1.3
6	36543	340	7	5	5	22	22	15	5	5	5	.011			.8
7	36544	341	6	12	9	5	5	4	3	3	3	5.875			.2
8	36545	342	2	0	2	7	9	15	27	18	18	10.000			.8
9	36546	343	22	15	27	12	6	7	3	3	3	11.875			.7
10	36547	344	4	7	9	3	2	3	0	2	2	3.750			.0
11	36548	345	5	7	7	12	7	5	5	18	18	8.250			.5
12	36549	346	7	7	0	5	5	4	7	9	9	5.500			.3
13	36550	347	56	56	18	15	67	48	80	56	56	49.500			1.6
14	36551	348	22	15	6	7	27	18	27	27	27	16.625			1.2
15	36552	349	7	7	4	12	7	12	18	12	12	9.875			.7
16	36553	350	27	32	9	22	10	9	7	4	4	16.000			1.0
17	36554	351	6	4	6	9	6	32	94	80	80	29.625			1.4
18	36555	352	132	67	15	12	13	5	4	5	5	.332			1.3
19	36556	353	32	39	18	27	22	15	12	6	6	21.375			1.1
20	36557	354	12	18	18	18	15	15	12	9	9	14.625			.8
21	36558	355	9	7	12	7	9	6	7	5	5	7.750			.4
22	36559	356	15	4	7	6	9	7	15	9	9	9.000			.6
23	36560	357	5	4	12	15	18	18	15	9	9	12.000			.8
24	36561	358	9	7	9	7	7	5	5	6	6	6.875			.2
25	36562	359	0	0	2	6	5	5	6	12	12	4.500			.2
26	36563	360	9	9	4	7	18	18	18	18	18	12.625			.9
27	36564	361	9	15	15	15	18	12	5	7	7	12.000			.7
28	36565	362	18	12	15	12	15	15	12	9	9	13.500			.9
29	36566	363	15	7	6	6	12	6	9	15	15	9.500			.4
30	36567	364	12	6	9	9	22	15	12	12	12	12.125			.7
31	36568	365	9	5	7	5	12	6	9	3	3	7.000			.2

DECEMBER 1958

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1---SOLAR FLUX(10.7CM OTTAWA)	1---RELATIVE ZURICH SUNSPOT NUMBER	1---RUNNING MEANS	1---RUNNING MEANS	1---RUNNING MEANS
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY
1	36538 335	1 272.0 207.7	221.0	224.8	1 241	147.6 168.0 175.2
2	36539 336	1 263.0 209.2	222.3	224.7	1 234	149.7 170.2 174.8
3	36540 337	1 244.0 210.6	223.1	224.2	1 228	152.5 172.2 174.3
4	36541 338	1 244.0 211.9	223.7	223.6	1 221	155.7 174.0 174.2
5	36542 339	1 257.0 214.3	224.4	223.5	1 233	160.1 175.0 174.2
6	36543 340	1 253.0 216.9	224.9	223.3	1 227	165.0 177.5 174.5
7	36544 341	1 257.0 220.1	225.4	223.3	1 242	170.8 179.3 175.1
8	36545 342	1 264.0 223.7	226.0	223.5	1 255	177.1 181.1 175.8
9	36546 343	1 258.0 227.1	226.1	223.7	1 252	183.3 181.7 176.6
10	36547 344	1 273.0 231.1	225.8	224.2	1 258	189.4 182.2 177.7
11	36548 345	1 260.0 234.6	225.3	224.7	1 237	194.6 182.1 178.7
12	36549 346	1 261.0 238.0	224.6	224.9	1 211	198.9 181.6 179.2
13	36550 347	1 264.0 241.5	224.4	225.3	1 198	202.7 181.0 179.5
14	36551 348	1 262.0 244.7	224.1	225.8	1 185	206.6 180.5 179.6
15	36552 349	1 239.0 247.0	223.4	226.0	1 150	209.2 178.8 179.5
16	36553 350	1 220.0 248.3	223.1	226.0	1 142	210.8 177.1 179.2
17	36554 351	1 207.0 249.0	222.7	225.9	1 124	211.5 175.9 178.5
18	36555 352	1 205.0 249.3	222.9	225.6	1 109	210.9 174.7 177.3
19	36556 353	1 190.0 248.9	222.8	225.2	1 80	208.6 173.0 175.6
20	36557 354	1 202.0 248.4	223.0	224.8	1 83	205.9 171.5 174.1
21	36558 355	1 201.0 247.2	222.8	224.5	1 92	202.7 169.9 172.5
22	36559 356	1 214.0 246.0	222.7	224.4	1 114	199.1 168.3 171.2
23	36560 357	1 218.0 244.2	222.5	224.3	1 150	195.9 167.5 170.5
24	36561 358	1 227.0 242.6	222.6	224.5	1 185	193.6 167.0 170.6
25	36562 359	1 235.0 241.6	222.6	224.9	1 218	192.1 167.1 171.4
26	36563 360	1 242.0 240.7	222.5	225.6	1 229	191.0 167.4 172.5
27	36564 361	1 230.0 239.3	222.6	226.1	1 218	189.5 167.6 173.6
28	36565 362	1 226.0 237.6	222.7	226.5	1 183	187.3 167.4 174.5
29	36566 363	1 222.0 236.1	222.6	226.9	1 160	184.9 167.3 175.1
30	36567 364	1 227.0 235.5	223.0	227.2	1 175	182.9 167.7 175.8
31	36568 365	1 229.0 234.9	223.4	227.5	1 175	181.2 168.5 176.4

MONTHLY AVERAGE 237.6  
MONTHLY SMOOTHED 227.5

187.6  
180.5

JANUARY 1959

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36569	1	.000	.000	.333	.667	.333	.000	.000	2.000	.250
2	36570	2	.000	.000	.333	1.667	1.333	1.000	1.000	7.000	.875
3	36571	3	2.000	2.333	2.333	2.000	1.000	1.667	.333	13.667	1.708
4	36572	4	1.000	.667	1.667	2.000	2.333	2.667	1.333	13.667	1.708
5	36573	5	2.000	1.333	1.000	3.667	4.000	4.667	5.667	26.333	3.292
6	36574	6	4.667	4.000	3.000	3.333	4.000	4.000	3.333	30.000	3.750
7	36575	7	4.333	3.667	3.333	3.000	1.667	2.000	3.667	25.667	3.208
8	36576	8	4.000	3.000	2.333	3.000	2.333	3.667	4.333	25.667	3.208
9	36577	9	4.667	2.333	2.000	2.667	3.667	4.667	6.333	32.333	4.042
10	36578	10	5.667	5.000	4.667	5.000	4.667	4.333	5.333	39.000	4.875
11	36579	11	4.667	2.333	2.000	1.333	2.333	2.000	3.667	21.333	2.667
12	36580	12	4.000	2.333	1.000	2.000	2.667	3.000	3.000	21.000	2.625
13	36581	13	1.667	2.000	2.667	2.667	1.667	2.333	3.000	17.000	2.125
14	36582	14	.333	.667	3.000	2.333	2.333	1.333	1.667	14.333	1.792
15	36583	15	2.000	3.667	3.000	2.333	1.333	.667	.667	14.667	1.833
16	36584	16	1.333	.333	2.000	4.333	4.000	3.667	3.667	23.000	2.875
17	36585	17	2.667	4.000	3.333	3.333	4.000	2.667	2.000	25.667	3.208
18	36586	18	3.667	4.000	3.000	2.667	3.000	3.000	3.333	26.667	3.333
19	36587	19	2.000	3.000	2.667	2.667	2.333	2.667	1.333	18.667	2.333
20	36588	20	.667	.000	1.000	1.333	1.000	1.333	1.667	8.000	1.000
21	36589	21	.333	.000	1.000	1.000	1.333	1.000	.333	6.333	.792
22	36590	22	.667	2.000	3.000	1.667	1.667	1.667	1.667	14.000	1.750
23	36591	23	3.000	1.667	1.333	2.667	3.000	1.333	1.000	15.333	1.917
24	36592	24	1.667	1.667	2.000	.667	.667	.333	.333	8.333	1.042
25	36593	25	1.000	1.000	.667	3.667	4.333	4.333	2.667	22.000	2.750
26	36594	26	1.333	3.667	1.667	4.333	6.000	3.667	1.333	22.333	2.792
27	36595	27	.000	2.000	2.667	3.000	2.667	2.333	2.000	16.667	2.063
28	36596	28	3.000	2.333	1.667	2.000	2.000	2.667	2.333	18.333	2.292
29	36597	29	1.333	1.667	2.667	3.333	3.000	4.333	4.000	23.667	2.958
30	36598	30	3.333	3.333	2.333	3.000	2.333	2.333	.333	19.000	2.375
31	36599	31	3.000	4.000	3.667	3.333	2.000	1.667	1.667	21.333	2.667

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

JANUARY 1959

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1- DAY	2- DAY	3- DAY	4- DAY	5- DAY	6- DAY	7- DAY	8- DAY	9- DAY	10- DAY	11- DAY	12- DAY	13- DAY	14- DAY	15- DAY	16- DAY	17- DAY	18- DAY	19- DAY	20- DAY	21- DAY	22- DAY	23- DAY	24- DAY	25- DAY	26- DAY	27- DAY	28- DAY	29- DAY	30- DAY	31- DAY
1	36569	1	239.0	234.3	224.3	227.7	1	221	180.8	170.5	177.5																					
2	36570	2	254.0	234.3	225.6	228.0	1	225	180.7	172.8	178.6																					
3	36571	3	270.0	234.8	227.5	228.5	1	229	180.2	175.5	179.6																					
4	36572	4	274.0	235.1	229.4	229.1	1	231	179.3	178.2	180.5																					
5	36573	5	286.0	236.2	231.6	229.5	1	243	179.0	181.1	180.8																					
6	36574	6	299.0	237.1	234.1	229.6	1	238	178.3	183.8	180.9																					
7	36575	7	311.0	239.0	236.8	229.9	1	247	178.6	186.6	180.9																					
8	36576	8	282.0	239.8	238.9	229.7	1	246	179.9	187.4	181.0																					
9	36577	9	272.0	240.1	240.8	229.6	1	245	181.7	192.2	181.2																					
10	36578	10	286.0	241.0	242.9	229.7	1	224	183.1	194.9	181.3																					
11	36579	11	264.0	241.9	244.5	229.6	1	218	185.6	197.4	181.1																					
12	36580	12	255.0	243.2	245.8	229.8	1	203	187.9	199.4	180.7																					
13	36581	13	238.0	244.4	246.7	229.9	1	192	190.4	200.9	180.8																					
14	36582	14	227.0	245.7	247.3	230.3	1	128	191.1	201.0	180.2																					
15	36583	15	209.0	245.9	247.4	230.5	1	120	192.6	200.6	179.5																					
16	36584	16	216.0	246.4	247.4	230.8	1	143	194.8	200.4	179.3																					
17	36585	17	223.0	247.2	247.2	231.0	1	168	197.6	200.2	179.1																					
18	36586	18	240.0	248.2	247.1	231.2	1	179	200.0	199.6	178.9																					
19	36587	19	260.0	250.0	247.1	231.7	1	202	202.0	198.9	179.0																					
20	36588	20	293.0	252.7	247.6	237.6	1	240	204.0	178.8	179.4																					
21	36589	21	314.0	255.8	248.7	233.6	1	255	205.4	198.8	179.8																					
22	36590	22	341.0	259.4	250.1	234.8	1	278	207.2	199.1	180.6																					
23	36591	23	331.0	263.7	251.3	236.1	1	270	209.1	199.3	181.4																					
24	36592	24	338.0	267.3	252.5	237.6	1	261	212.0	199.7	182.3																					
25	36593	25	324.0	271.1	253.6	238.8	1	255	215.2	200.1	183.3																					
26	36594	26	317.0	274.4	255.0	240.2	1	252	218.1	200.5	184.5																					
27	36595	27	325.0	278.0	256.5	241.6	1	263	221.3	201.3	186.1																					
28	36596	28	307.0	280.5	257.4	243.0	1	239	222.0	201.4	187.6																					
29	36597	29	265.0	280.9	257.6	244.0	1	213	221.6	201.1	189.1																					
30	36598	30	226.0	279.3	257.0	244.7	1	167	219.3	199.7	190.1																					
31	36599	31	216.0	277.1	256.1	245.3	1	143	216.0	197.7	190.8																					

MONTHLY AVERAGE 274.8  
MONTHLY SMOOTHED 226.5

217.4  
178.6

FEBRUARY 1959

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36600	32	2.667	3.000	2.333	2.667	3.333	2.667	1.667	1.333	19.667	2.458
2	36601	33	1.667	4.333	4.333	4.000	4.000	3.333	3.333	4.000	29.000	3.625
3	36602	34	4.000	2.667	2.333	4.000	3.667	3.667	3.333	4.667	28.333	3.542
4	36603	35	5.000	4.333	3.333	4.000	4.667	4.000	4.667	5.333	35.333	4.417
5	36604	36	3.667	4.667	3.667	3.667	3.667	4.000	3.333	3.667	30.333	3.792
6	36605	37	4.000	2.667	2.000	3.667	3.333	3.333	4.000	3.000	26.000	3.250
7	36606	38	3.000	2.667	1.667	2.333	3.333	2.333	2.667	1.000	19.000	2.375
8	36607	39	1.333	1.667	2.333	2.667	3.000	2.667	2.667	4.000	20.333	2.542
9	36608	40	4.667	4.667	5.000	3.333	3.333	2.667	1.000	2.000	26.667	3.333
10	36609	41	2.333	1.000	.333	1.000	.667	1.333	1.333	2.667	10.667	1.333
11	36610	42	1.000	3.667	3.667	6.333	5.333	4.667	3.667	4.333	32.667	4.083
12	36611	43	3.667	5.000	3.333	4.000	3.333	3.333	3.000	3.667	29.333	3.667
13	36612	44	3.667	2.000	1.333	3.333	4.333	4.000	4.333	4.000	27.000	3.375
14	36613	45	3.333	4.000	3.667	4.000	5.667	5.000	3.333	2.333	31.333	3.917
15	36614	46	3.333	5.667	5.667	5.000	4.333	4.333	4.000	1.667	34.000	4.250
16	36615	47	5.000	6.000	5.000	3.000	5.333	5.667	6.333	6.000	42.333	5.292
17	36616	48	5.667	4.667	5.000	2.667	2.000	2.000	2.000	.667	24.667	3.083
18	36617	49	1.333	.667	1.000	1.333	.767	1.667	1.333	1.333	9.333	1.167
19	36618	50	2.667	3.667	3.333	2.667	3.000	2.333	2.000	1.000	20.667	2.583
20	36619	51	.000	1.000	1.667	2.000	1.333	.667	.667	.667	8.000	1.000
21	36620	52	.667	.333	2.667	2.333	2.000	1.333	2.000	1.333	12.667	1.583
22	36621	53	3.000	4.333	3.333	4.000	2.333	3.000	2.000	3.000	25.000	3.125
23	36622	54	3.667	3.667	4.333	3.667	3.000	.667	.667	.000	19.667	2.458
24	36623	55	.000	.333	1.000	1.667	1.667	1.000	.667	1.667	8.000	1.000
25	36624	56	3.333	4.667	6.333	5.667	6.333	7.333	5.333	4.333	43.333	5.417
26	36625	57	5.333	5.333	6.333	4.667	4.667	4.667	4.333	4.333	39.667	4.958
27	36626	58	3.333	4.000	2.667	3.000	4.333	5.667	5.000	3.667	31.667	3.958
28	36627	59	4.667	5.000	3.000	4.000	5.000	5.000	5.667	5.333	37.667	4.708

FEBRUARY 1959

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AVG AP	MAGNETIC CHARACTER
1	36600	32	12	15	9	12	18	12	6	5	11.125	.7
2	36601	33	6	32	32	27	27	18	18	27	23.375	1.1
3	36602	34	27	12	9	27	22	22	18	39	22.000	1.2
4	36603	35	48	32	16	27	39	27	39	56	35.750	1.3
5	36604	36	22	39	22	22	22	27	18	22	24.250	1.1
6	36605	37	27	12	7	22	18	18	27	15	18.250	1.0
7	36606	38	15	12	4	9	19	9	12	4	10.625	.6
8	36607	39	5	6	9	12	15	12	12	27	12.250	.9
9	36608	40	39	39	48	18	18	12	4	7	23.125	1.1
10	36609	41	9	4	2	4	3	5	5	12	5.500	.2
11	36610	42	4	22	22	94	56	39	22	32	36.375	1.4
12	36611	43	22	48	18	27	13	18	15	22	23.500	1.1
13	36612	44	22	7	5	18	32	27	32	27	21.250	1.2
14	36613	45	18	27	27	27	67	48	18	9	29.500	1.3
15	36614	46	18	67	67	48	32	32	27	6	37.125	1.3
16	36615	47	48	80	48	15	56	47	94	80	61.000	1.7
17	36616	48	67	39	48	12	7	7	7	3	23.750	1.0
18	36617	49	5	3	4	5	3	6	5	5	4.500	.1
19	36618	50	12	22	16	12	15	9	7	4	12.375	.7
20	36619	51	0	4	6	7	5	3	3	3	3.875	.1
21	36620	52	3	2	12	9	7	5	7	5	6.250	.2
22	36621	53	15	32	18	27	9	15	7	15	17.250	.8
23	36622	54	22	22	32	22	15	3	3	0	14.375	.3
24	36623	55	0	2	4	6	6	4	3	6	3.875	.2
25	36624	56	18	39	74	67	94	154	56	32	69.250	1.9
26	36625	57	56	56	94	39	39	39	32	32	46.375	1.5
27	36626	58	18	27	12	15	32	67	40	22	30.125	1.3
28	36627	59	39	48	15	27	48	48	67	56	43.500	1.5

FEBRUARY 1959

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
			SOLAR FLUX(10.7CM OTTAKA)										RELATIVE ZURICH SUNSPOT NUMBER																			
			DAILY 27-DAY					54-DAY					81-DAY					DAILY 27-DAY					54-DAY					81-DAY				
			RUNNING MEANS					RUNNING MEANS					RUNNING MEANS					RUNNING MEANS					RUNNING MEANS					RUNNING MEANS				
1	36600	32	1	207.0	274.2	255.2	245.8	1	141	212.2	195.6	191.5																				
2	36601	33	1	207.0	270.8	254.0	246.4	1	141	208.6	193.4	192.1																				
3	36602	34	1	206.0	266.9	253.0	246.9	1	140	204.7	191.6	192.6																				
4	36603	35	1	203.0	264.0	251.9	247.3	1	137	200.6	190.3	193.1																				
5	36604	36	1	193.0	261.1	250.6	247.6	1	128	196.3	189.0	193.6																				
6	36605	37	1	197.0	257.8	249.4	247.6	1	114	192.2	187.7	194.0																				
7	36606	38	1	184.0	254.8	248.4	247.9	1	124	188.7	187.2	194.5																				
8	36607	39	1	183.0	252.1	247.7	247.9	1	90	184.6	186.2	194.4																				
9	36608	40	1	175.0	249.8	247.1	247.7	1	87	180.7	185.5	194.2																				
10	36609	41	1	191.0	248.5	246.8	247.7	1	100	179.6	185.4	193.9																				
11	36610	42	1	200.0	248.1	247.0	247.6	1	100	178.9	185.7	193.4																				
12	36611	43	1	200.0	247.6	247.0	247.4	1	101	177.3	186.1	192.7																				
13	36612	44	1	202.0	246.8	247.0	247.1	1	106	175.0	186.3	191.8																				
14	36613	45	1	200.0	245.3	246.7	246.5	1	129	173.2	186.6	190.8																				
15	36614	46	1	214.0	243.3	246.7	245.9	1	133	170.6	186.3	189.5																				
16	36615	47	1	215.0	240.2	246.4	245.2	1	144	167.1	185.5	188.2																				
17	36616	48	1	221.0	236.6	246.2	244.7	1	170	163.9	184.6	187.1																				
18	36617	49	1	219.0	232.1	245.8	244.1	1	170	159.9	183.6	186.0																				
19	36618	50	1	219.0	227.9	245.6	243.5	1	175	156.4	182.8	185.0																				
20	36619	51	1	229.0	223.9	245.6	243.0	1	160	152.7	182.3	184.0																				
21	36620	52	1	225.0	220.2	245.7	242.5	1	163	149.3	182.2	183.1																				
22	36621	53	1	220.0	216.6	245.5	242.2	1	171	146.3	182.4	182.4																				
23	36622	54	1	213.0	212.5	245.2	241.8	1	186	143.4	182.4	182.0																				
24	36623	55	1	221.0	209.3	244.9	241.4	1	190	141.6	181.8	181.5																				
25	36624	56	1	228.0	207.9	244.4	241.0	1	191	140.4	181.0	180.9																				
26	36625	57	1	220.0	207.7	243.5	240.6	1	176	140.7	180.0	180.1																				
27	36626	58	1	212.0	207.6	242.4	240.0	1	163	141.5	178.7	178.9																				
28	36627	59	1	202.0	207.4	240.8	239.3	1	186	143.1	177.7	178.1																				

MONTHLY AVERAGE 207.4  
MONTHLY SMOOTHED 225.6

143.1  
176.9



MARCH 1959

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MID. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36528 60	4.667	5.000	4.333	4.667	4.667	4.667	5.667	4.000	4.333	37.667	4.708
2	36529 61	4.000	4.333	4.667	4.000	4.333	4.333	3.667	4.667	4.000	33.667	4.208
3	36530 62	3.667	4.333	3.667	3.667	3.667	3.333	3.667	3.333	4.000	29.667	3.708
4	36531 63	3.333	2.333	3.000	3.333	2.667	2.667	2.667	3.333	2.000	22.667	2.633
5	36532 64	3.000	3.000	3.000	2.000	2.000	1.667	2.667	3.333	2.667	21.333	2.667
6	36533 65	2.667	2.667	1.667	1.000	1.333	1.333	.667	1.000	.333	11.333	1.417
7	36534 66	.333	.667	1.000	2.000	1.667	1.667	2.000	2.333	2.667	12.667	1.583
8	36535 67	4.667	3.333	2.000	1.333	1.000	1.000	1.667	.667	1.000	15.667	1.958
9	36536 68	1.667	1.667	1.333	1.000	1.000	1.000	1.667	.333	.000	8.667	1.003
10	36537 69	.000	.000	1.667	1.667	.667	.667	.333	.000	.333	4.667	.583
11	36538 70	.333	.000	1.333	1.333	1.667	1.667	.667	2.333	1.333	9.000	1.125
12	36539 71	3.333	3.333	3.333	3.667	4.000	3.333	3.333	3.333	1.333	25.667	3.208
13	36540 72	2.000	3.000	2.333	2.667	3.333	3.333	2.333	1.667	3.333	20.667	2.583
14	36541 73	.667	2.000	3.000	2.667	2.333	2.333	1.333	1.000	1.667	14.667	1.833
15	36542 74	2.667	2.000	1.333	2.333	1.667	1.667	.667	.333	1.667	12.667	1.583
16	36543 75	2.333	1.000	1.333	1.000	.667	.667	.333	.667	1.000	8.333	1.042
17	36544 76	1.333	2.333	2.000	1.000	1.000	1.000	1.667	1.000	1.667	12.000	1.500
18	36545 77	.333	2.000	.667	1.000	1.000	1.667	1.333	.667	4.000	11.667	1.458
19	36546 78	1.000	1.000	1.333	2.333	2.000	2.000	1.667	2.333	.667	12.333	1.542
20	36547 79	1.333	2.000	2.000	1.333	1.667	1.667	1.000	1.000	.667	11.000	1.375
21	36548 80	1.000	.667	1.333	2.333	2.000	2.000	2.000	1.333	1.333	12.000	1.500
22	36549 81	.667	.667	1.000	1.000	1.667	2.000	1.333	2.000	2.000	10.333	1.292
23	36550 82	2.667	3.667	3.000	1.667	1.667	1.667	2.333	2.667	1.667	19.333	2.417
24	36551 83	2.000	1.667	2.000	2.667	2.333	2.333	2.000	2.000	1.333	16.000	2.000
25	36552 84	2.333	5.333	3.333	2.333	4.333	4.333	5.333	5.000	3.333	31.333	3.917
26	36553 85	2.333	1.333	4.000	6.333	8.000	8.000	5.333	6.333	7.333	41.000	5.125
27	36554 86	7.333	7.667	8.333	6.667	8.333	8.333	8.333	7.667	6.333	60.667	7.583
28	36555 87	3.333	5.333	4.333	5.333	6.333	6.333	7.000	7.333	7.333	46.333	5.792
29	36556 88	6.667	6.333	6.333	5.667	5.667	5.667	6.000	5.333	2.667	44.667	5.583
30	36557 89	3.333	3.667	4.333	5.000	3.000	3.000	2.000	2.000	2.000	25.333	3.167
31	36558 90	2.667	3.000	2.667	3.000	3.000	3.000	2.333	4.000	5.000	25.667	3.200

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

155

MARCH 1959

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	1---SOLAR FLUX(10.7CM OTTAWA)-----1---RELATIVE ZURICH SUNSPOT NUMBER-----1	2---RUNNING MEANS-----2---RUNNING MEANS-----	3---DAILY 27-DAY 54-DAY 81-DAY 1 DAILY 27-DAY 54-DAY 81-DAY--1					
1	36628	60	188.0	206.7	238.7	238.2	158	143.8	176.2	176.9
2	36629	61	182.0	205.8	236.4	237.2	151	144.2	174.4	175.8
3	36630	62	182.0	205.0	234.5	236.3	151	144.7	172.7	175.1
4	36631	63	179.0	204.5	232.8	235.2	146	145.4	170.8	174.4
5	36632	64	180.0	203.9	230.8	234.2	152	146.8	169.5	174.0
6	36633	65	191.0	204.1	229.5	233.6	148	147.7	168.2	174.0
7	36634	66	189.0	204.3	228.2	233.2	150	149.9	167.2	174.1
8	36635	67	192.0	205.0	227.4	233.0	155	152.4	166.5	174.5
9	36636	68	199.0	205.3	226.9	233.0	164	154.8	167.2	175.2
10	36637	69	205.0	205.4	226.8	233.2	156	156.9	167.7	176.1
11	36638	70	202.0	205.5	226.5	233.2	148	158.6	168.0	176.9
12	36639	71	175.0	205.3	226.0	233.1	126	159.3	167.2	177.3
13	36640	72	208.0	205.6	225.4	233.0	159	160.4	166.8	177.9
14	36641	73	216.0	205.6	224.5	233.0	173	161.9	166.3	178.2
15	36642	74	235.0	206.4	223.3	233.1	216	164.6	165.8	178.6
16	36643	75	247.0	207.3	222.0	233.2	225	166.6	165.3	178.6
17	36644	76	260.0	208.9	220.5	233.5	228	168.8	164.4	178.6
18	36645	77	275.0	210.9	219.4	234.0	230	170.8	163.6	178.6
19	36646	78	202.0	212.9	218.4	234.7	234	173.6	163.1	179.4
20	36647	79	286.0	215.1	217.7	235.5	236	176.3	162.8	180.3
21	36648	80	288.0	217.7	217.1	236.2	230	178.5	162.4	181.0
22	36649	81	262.0	219.5	216.0	236.7	203	179.3	161.4	181.4
23	36650	82	258.0	220.9	215.1	236.9	194	179.5	160.5	181.0
24	36651	83	247.0	221.6	214.7	236.8	178	179.4	159.9	180.4
25	36652	84	248.0	222.6	215.1	236.5	199	180.2	160.5	180.1
26	36653	85	247.0	223.9	215.7	236.2	190	181.2	161.4	179.6
27	36654	86	246.0	225.5	216.4	235.7	178	180.9	162.0	178.8
28	36655	87	246.0	227.7	217.2	235.1	173	181.5	162.6	178.0
29	36656	88	245.0	230.1	217.9	234.3	217	183.9	164.1	177.6
30	36657	89	258.0	232.9	218.9	234.0	233	187.0	165.8	177.4
31	36658	90	254.0	235.7	220.1	233.7	248	190.7	168.1	177.5

MONTHLY AVERAGE 226.8  
MONTHLY SMOOTHED 223.4185.7  
174.5

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36659	91	3.667	4.000	3.667	1.000	.667	1.000	.333	15.333	1.917
2	36660	92	.333	1.000	1.333	1.333	1.333	2.667	2.333	12.667	1.543
3	36661	93	3.333	3.000	3.333	2.333	2.000	.667	2.667	20.000	2.500
4	36662	94	2.667	2.667	1.667	.667	1.667	1.333	1.000	13.333	1.667
5	36663	95	2.667	1.667	1.000	1.667	1.667	1.667	.667	12.667	1.583
6	36664	96	2.000	1.000	1.333	1.333	2.000	2.333	1.667	13.000	1.825
7	36665	97	2.000	1.667	1.000	2.333	1.333	3.333	2.333	16.000	2.000
8	36666	98	2.667	3.333	3.333	3.000	3.667	3.333	5.333	27.667	3.458
9	36667	99	6.000	6.333	4.667	4.000	1.667	2.333	4.667	35.000	4.375
10	36668	100	4.667	5.000	7.667	7.333	7.000	5.333	3.333	47.667	5.958
11	36669	101	3.667	3.333	3.667	4.000	3.000	3.667	5.000	28.667	3.583
12	36670	102	3.667	3.000	2.000	2.667	1.667	.667	2.667	17.667	2.208
13	36671	103	2.667	2.000	3.000	1.667	2.667	2.000	3.333	17.667	2.208
14	36672	104	3.667	3.000	2.333	1.667	2.000	2.000	3.000	19.667	2.458
15	36673	105	4.000	1.667	2.000	1.000	1.333	3.000	1.667	16.667	2.083
16	36674	106	2.333	1.333	1.667	2.667	1.000	1.667	1.333	13.000	1.625
17	36675	107	.333	1.000	2.667	2.667	2.667	1.667	1.667	14.000	1.750
18	36676	108	2.333	.667	.667	1.333	1.000	1.667	.333	9.667	1.208
19	36677	109	.667	.667	.667	1.333	2.000	.667	2.000	9.333	1.167
20	36678	110	.667	1.333	1.000	1.667	2.000	1.000	.667	9.667	1.208
21	36679	111	2.667	2.333	2.333	3.000	2.333	.667	.333	15.667	1.958
22	36680	112	.667	.333	.333	.667	1.000	.667	.333	4.667	.583
23	36681	113	.000	.333	.333	4.000	4.667	6.667	6.333	27.333	3.417
24	36682	114	3.667	4.000	4.333	4.000	4.667	2.333	4.000	31.333	3.917
25	36683	115	3.000	3.667	4.000	2.667	3.000	4.333	3.667	28.333	3.542
26	36684	116	3.667	4.000	2.667	3.000	3.000	3.000	4.333	25.667	3.208
27	36685	117	3.000	2.667	3.333	2.000	3.000	1.667	3.667	22.333	2.792
28	36686	118	1.667	2.000	2.667	3.000	2.333	2.333	4.333	20.000	2.500
29	36687	119	4.000	3.667	3.000	3.000	5.000	4.000	2.333	29.333	3.667
30	36688	120	2.000	2.000	3.000	2.000	4.667	4.667	2.000	25.333	3.167

APRIL 1959

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	36659	91	22	27	22	4	4	3	4	2	2	11.000			.6
2	36660	92	2	4	5	9	5	5	12	9	9	6.375			.3
3	36661	93	18	15	12	18	9	7	3	12	11.750				.6
4	36662	94	12	12	6	6	3	6	5	4	6.750				.2
5	36663	95	12	6	4	6	6	6	6	3	6.125				.1
6	36664	96	7	4	5	5	5	7	9	6	6.000				.2
7	36665	97	7	6	4	7	9	5	18	9	8.125				.6
8	36666	98	12	18	18	15	22	18	15	56	21.750				1.1
9	36667	99	80	94	39	27	6	9	56	39	43.750				1.5
10	36668	100	39	48	179	154	154	132	56	18	97.500				1.9
11	36669	101	22	18	22	27	15	9	22	48	22.875				1.3
12	36670	102	22	15	7	12	6	5	3	12	10.250				.5
13	36671	103	12	7	15	6	12	7	9	5	9.125				.5
14	36672	104	22	15	9	6	7	7	7	15	11.000				.7
15	36673	105	27	6	7	4	5	7	15	6	9.625				.6
16	36674	106	9	5	6	12	4	4	6	5	6.375				.2
17	36675	107	2	4	12	12	12	5	6	6	7.375				.4
18	36676	108	9	3	3	5	4	6	6	2	4.750				.2
19	36677	109	3	3	3	5	5	7	3	7	4.500				.2
20	36678	110	3	5	4	6	7	5	4	3	4.625				.1
21	36679	111	12	9	9	15	7	9	3	2	8.250				.4
22	36680	112	3	2	2	3	3	4	3	2	2.750				.0
23	36681	113	0	2	2	27	39	48	111	94	40.375				1.5
24	36682	114	22	27	32	27	39	32	9	27	26.875				1.4
25	36683	115	15	22	27	12	15	27	32	22	21.500				1.1
26	36684	116	22	27	12	15	7	15	15	32	18.125				1.1
27	36685	117	15	12	18	7	15	15	6	22	13.750				.9
28	36686	118	6	7	12	15	9	6	9	32	12.000				.9
29	36687	119	27	22	15	15	32	40	27	9	24.375				1.2
30	36688	120	7	7	15	7	39	40	39	7	21.125				1.1

APRIL 1959

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			36659	91	1	256.0	238.5	221.2	233.4	1	243	194.1	170.4	177.7																		
			36660	92	1	236.0	240.1	222.1	233.0	1	242	197.6	172.6	178.0																		
			36661	93	1	215.0	241.1	222.7	232.5	1	174	198.5	174.2	177.6																		
			36662	94	1	215.0	242.0	223.5	232.3	1	159	198.6	175.5	177.2																		
			36663	95	1	196.0	241.9	223.6	231.9	1	124	197.1	176.0	177.2																		
			36664	96	1	196.0	241.6	223.5	231.7	1	108	195.4	176.1	177.0																		
			36665	97	1	217.0	242.1	223.8	231.7	1	107	193.9	176.2	176.6																		
			36666	98	1	215.0	242.9	224.1	231.6	1	136	194.2	176.3	176.2																		
			36667	99	1	215.0	243.1	224.3	231.3	1	161	194.3	177.4	176.0																		
			36668	100	1	220.0	243.3	224.4	230.7	1	177	194.4	178.2	175.7																		
			36669	101	1	232.0	243.1	224.8	229.9	1	197	193.7	179.2	175.1																		
			36670	102	1	224.0	242.3	224.8	228.7	1	189	192.4	179.5	174.3																		
			36671	103	1	209.0	240.4	224.6	227.1	1	178	190.6	179.7	173.1																		
			36672	104	1	176.0	237.6	224.2	225.5	1	193	189.2	180.0	172.1																		
			36673	105	1	189.0	234.1	223.5	223.6	1	174	187.0	180.3	171.1																		
			36674	106	1	100.0	230.5	222.8	222.0	1	153	183.8	180.1	169.8																		
			36675	107	1	190.0	226.9	222.3	220.4	1	126	180.0	179.2	168.2																		
			36676	108	1	181.0	223.9	221.7	218.6	1	114	176.5	177.9	166.4																		
			36677	109	1	190.0	221.6	221.2	217.2	1	117	173.6	176.6	164.9																		
			36678	110	1	203.0	219.9	220.7	216.5	1	135	172.0	175.7	163.9																		
			36679	111	1	203.0	218.3	220.4	216.2	1	128	169.4	174.8	163.5																		
			36680	112	1	199.0	216.5	220.2	216.0	1	138	167.5	174.4	163.4																		
			36681	113	1	213.0	215.3	220.4	216.0	1	186	167.8	174.4	164.0																		
			36682	114	1	213.0	214.0	220.9	216.1	1	186	168.3	174.9	164.5																		
			36683	115	1	211.0	212.7	221.4	216.2	1	203	167.7	175.8	165.3																		
			36684	116	1	218.0	211.2	222.1	216.4	1	204	166.7	176.8	166.1																		
			36685	117	1	212.0	209.7	222.7	216.6	1	175	164.0	177.4	166.7																		
			36686	118	1	216.0	208.2	223.3	216.8	1	172	161.3	177.7	167.4																		
			36687	119	1	211.0	207.3	223.7	217.2	1	160	158.3	177.9	167.9																		
			36688	120	1	220.0	207.4	224.3	217.6	1	141	157.1	177.8	168.5																		

MONTHLY AVERAGE 210.3  
MONTHLY SMOOTHED 218.8

163.3  
169.2

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	KP								SUM KP	AVG. KP
			1	2	3	4	5	6	7	8		
1	36609	121	1.333	3.667	2.000	2.333	2.667	1.333	2.000	2.000	17.333	2.167
2	36670	122	2.000	2.667	2.333	1.000	1.000	.667	1.667	2.667	14.000	1.750
3	36691	123	1.000	1.000	1.000	1.000	1.333	1.333	1.667	3.667	12.000	1.500
4	36692	124	3.000	1.667	2.333	3.000	2.667	2.333	3.000	5.000	23.000	2.875
5	36693	125	6.333	5.333	3.000	4.000	4.000	2.000	1.000	.333	26.000	3.250
6	36694	126	.667	.667	.333	1.000	1.000	1.333	.333	.667	6.000	.750
7	36695	127	1.333	.667	1.000	1.333	1.000	1.000	1.000	3.000	10.333	1.292
8	36696	128	3.333	5.333	5.333	5.000	3.667	4.000	2.667	4.000	33.333	4.167
9	36697	129	3.333	2.667	2.667	3.667	3.667	3.667	3.667	2.667	25.000	3.125
10	36698	130	2.667	2.333	3.333	3.667	2.000	3.333	3.000	3.000	23.333	2.917
11	36699	131	3.000	2.333	4.000	3.000	3.000	3.667	3.667	6.000	29.333	3.667
12	36700	132	7.000	6.667	6.667	5.667	6.667	8.333	5.333	4.667	51.000	6.375
13	36701	133	1.667	2.333	3.667	2.667	2.667	3.000	3.333	3.333	22.333	2.792
14	36702	134	1.333	1.333	.333	1.333	2.667	1.667	.667	.667	10.000	1.250
15	36703	135	2.333	2.000	2.667	4.667	5.000	5.333	4.667	5.333	32.000	4.000
16	36704	136	6.000	5.667	5.667	3.667	2.333	1.667	2.000	4.333	31.333	3.917
17	36705	137	1.667	1.333	2.667	3.000	3.667	4.000	2.333	2.333	21.000	2.625
18	36706	138	3.333	4.667	4.000	2.333	2.333	3.333	3.667	5.000	28.667	3.583
19	36707	139	3.333	3.000	1.667	3.000	3.000	2.667	3.000	3.000	22.667	2.833
20	36708	140	3.000	1.667	2.333	2.333	2.333	2.333	3.333	2.333	19.000	2.375
21	36709	141	3.000	2.667	2.333	2.667	1.667	2.333	3.667	3.333	21.667	2.708
22	36710	142	3.333	2.333	3.333	3.000	2.000	3.667	3.000	3.000	23.667	2.958
23	36711	143	3.667	3.333	2.333	2.333	1.667	2.333	2.667	2.333	20.667	2.583
24	36712	144	3.333	4.000	5.667	5.000	4.667	4.000	4.667	7.333	38.667	4.833
25	36713	145	6.333	3.667	3.667	3.333	2.333	3.000	2.667	2.333	27.333	3.417
26	36714	146	3.333	1.000	.667	2.000	1.333	1.333	2.333	1.667	13.667	1.708
27	36715	147	2.333	1.667	1.333	1.333	1.000	.667	.667	1.000	9.667	1.208
28	36716	148	.333	1.000	.667	.667	1.000	.333	.667	1.333	6.000	.750
29	36717	149	.667	.333	.333	.667	.333	.667	.333	1.667	5.000	.625
30	36718	150	1.000	.333	.333	1.667	3.333	2.000	1.333	.667	10.667	1.333
31	36719	151	2.333	3.333	2.333	2.333	5.000	3.667	4.000	4.333	27.333	3.417

MAY 1959

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	36689	121	5	22	7	9	12	5	7	7	7	9.250			.5
2	36690	122	7	12	9	4	4	3	6	12	12	7.125			.3
3	36691	123	4	4	4	4	5	5	6	22	22	6.750			.4
4	36692	124	15	6	9	15	12	9	15	48	48	16.125			1.0
5	36693	125	94	56	15	27	27	7	4	2	2	29.000			1.2
6	36694	126	3	3	2	4	4	5	2	3	3	3.250			.1
7	36695	127	5	3	4	5	4	4	4	15	15	5.500			.2
8	36696	128	18	56	56	48	22	27	12	27	27	33.250			1.3
9	36697	129	16	12	12	22	22	22	12	12	12	16.500			.9
10	36698	130	12	9	18	22	7	18	15	15	15	14.500			1.0
11	36699	131	15	9	27	15	22	22	22	80	80	26.500			1.3
12	36700	132	132	111	111	67	111	236	56	39	39	107.875			1.9
13	36701	133	6	9	22	12	12	15	15	18	18	13.625			.8
14	36702	134	5	5	2	5	12	6	3	3	3	5.125			.2
15	36703	135	9	7	12	39	48	56	39	56	56	33.250			1.2
16	36704	136	80	67	67	22	9	6	7	32	32	36.250			1.3
17	36705	137	6	5	12	15	22	27	9	9	9	13.125			.8
18	36706	138	18	39	27	7	9	18	22	48	48	23.750			1.2
19	36707	139	18	15	6	15	15	12	15	15	15	13.875			.8
20	36708	140	15	6	9	9	6	9	18	9	9	10.125			.7
21	36709	141	15	12	9	12	6	9	22	18	18	12.875			.8
22	36710	142	18	9	18	15	7	22	15	15	15	14.875			.9
23	36711	143	22	18	9	9	6	9	12	9	9	11.750			.7
24	36712	144	18	27	67	48	39	27	39	154	154	52.375			1.6
25	36713	145	94	22	22	18	9	15	12	9	9	25.125			1.3
26	36714	146	18	4	3	7	5	5	9	6	6	7.125			.4
27	36715	147	9	6	5	5	4	2	3	4	4	4.750			.2
28	36716	148	2	4	3	3	4	2	3	5	5	3.250			.1
29	36717	149	3	2	2	3	2	3	2	6	6	2.875			.0
30	36718	150	4	2	2	6	18	7	5	3	3	5.875			.3
31	36719	151	7	18	9	9	48	22	27	32	32	21.750			1.1



MONTHLY AVERAGE	212.6
MONTHLY SMOOTHED	215.2

172.0  
165.1

GEOMAGNETIC PLANETARY INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	YEAR	KP										SUM KP	AVG. KP
			1	2	3	4	5	6	7	8				
1	36720	152	2.667	2.000	2.000	1.333	1.000	1.667	2.333	2.000	15.000	1.875		
2	36721	153	2.333	2.667	3.000	3.333	4.000	3.000	4.000	4.333	26.667	3.333		
3	36722	154	3.333	3.333	4.000	2.667	3.667	3.000	2.000	2.333	24.333	3.042		
4	36723	155	3.667	3.000	4.000	3.667	3.667	2.667	3.667	5.000	28.333	3.542		
5	36724	156	4.333	3.000	2.333	2.667	3.333	2.667	2.667	2.333	23.333	2.917		
6	36725	157	1.667	1.667	2.333	3.333	2.667	3.000	3.000	3.000	20.667	2.583		
7	36726	158	2.333	3.000	1.667	1.333	2.000	2.667	2.000	1.667	16.667	2.083		
8	36727	159	1.667	1.333	2.667	2.000	2.667	3.333	3.000	2.667	19.333	2.417		
9	36728	160	3.000	3.333	4.000	4.333	4.000	2.667	3.000	2.333	26.667	3.333		
10	36729	161	3.667	4.333	2.333	2.333	2.000	2.000	1.333	2.000	20.000	2.500		
11	36730	162	1.333	1.333	1.667	5.000	6.000	4.667	2.000	1.667	23.667	2.958		
12	36731	163	1.000	1.000	.667	.667	1.000	2.667	3.000	1.333	11.667	1.458		
13	36732	164	1.333	.667	.667	.667	1.333	.667	1.333	1.667	8.333	1.042		
14	36733	165	.667	1.667	1.000	2.333	3.333	2.333	1.333	3.000	15.667	1.958		
15	36734	166	1.667	2.333	3.333	2.333	2.000	1.000	1.000	1.333	15.000	1.875		
16	36735	167	2.000	1.667	1.667	1.333	1.333	1.000	2.333	2.333	13.667	1.709		
17	36736	168	.333	.333	.333	.333	1.000	1.333	2.667	3.333	9.667	1.208		
18	36737	169	1.667	2.333	2.000	1.333	3.333	2.333	2.000	1.667	16.667	2.083		
19	36738	170	1.333	3.000	2.000	2.000	2.333	1.000	2.000	1.333	15.000	1.875		
20	36739	171	2.667	1.667	1.333	1.333	2.333	1.333	2.333	2.333	15.333	1.917		
21	36740	172	1.667	1.000	1.667	1.000	2.000	2.333	3.000	2.333	15.000	1.675		
22	36741	173	1.667	1.667	2.000	3.333	3.000	2.667	2.667	3.000	20.000	2.500		
23	36742	174	2.667	2.000	2.000	1.667	1.667	3.667	3.667	4.667	22.000	2.750		
24	36743	175	5.000	6.000	2.667	1.333	1.000	1.667	3.667	2.667	24.667	3.083		
25	36744	176	2.000	1.333	1.000	1.667	1.333	1.000	1.667	3.000	13.000	1.625		
26	36745	177	2.667	3.333	4.333	3.000	3.000	2.667	1.667	.667	21.333	2.667		
27	36746	178	.333	.667	2.333	.667	6.000	5.667	4.000	5.000	27.000	3.375		
28	36747	179	5.000	4.333	4.333	3.333	5.667	4.000	4.000	3.333	34.000	4.250		
29	36748	180	3.000	3.333	6.000	6.000	5.000	4.333	4.667	6.333	38.667	4.833		
30	36749	181	4.667	3.000	4.333	5.333	6.000	4.667	4.000	3.000	35.000	4.375		

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	MAGNETIC CHARACTER									
			AP	AP	AP	AP	AP	AP	AP	AP		
1	36720	152	12	7	7	5	4	6	9	7	7.125	.3
2	36721	153	9	12	15	18	27	15	27	32	19.375	1.0
3	36722	154	10	27	12	18	22	15	7	9	16.000	1.0
4	36723	155	22	15	27	22	12	12	22	48	22.500	1.1
5	36724	156	32	15	9	12	18	12	12	9	14.875	.8
6	36725	157	6	6	9	10	12	15	15	15	12.000	.7
7	36726	158	9	15	6	5	7	12	7	6	8.375	.5
8	36727	159	6	5	12	7	12	10	15	12	10.875	.7
9	36728	160	15	18	27	32	27	12	15	9	19.375	1.0
10	36729	161	22	32	9	9	7	7	5	7	12.250	.7
11	36730	162	5	5	6	48	80	39	7	6	24.500	1.1
12	36731	163	4	4	4	3	4	12	15	5	6.375	.2
13	36732	164	5	3	3	3	5	3	5	6	4.125	.1
14	36733	165	3	6	4	9	18	9	5	15	8.625	.4
15	36734	166	6	9	18	9	7	4	4	5	7.750	.4
16	36735	167	7	6	6	5	5	4	9	9	6.375	.2
17	36736	168	2	2	2	2	4	5	12	18	5.875	.3
18	36737	169	6	9	7	5	18	9	7	6	8.375	.6
19	36738	170	5	15	7	7	9	4	7	5	7.375	1.4
20	36739	171	12	6	5	5	9	5	9	9	7.500	.4
21	36740	172	6	4	6	4	7	9	15	9	7.500	.4
22	36741	173	6	6	7	18	15	12	12	15	11.375	.8
23	36742	174	12	7	7	6	6	22	22	39	15.125	.9
24	36743	175	67	00	12	5	4	6	22	12	26.000	1.1
25	36744	176	7	5	4	6	5	4	6	15	6.500	.4
26	36745	177	12	10	32	15	15	12	6	3	14.125	.8
27	36746	178	2	3	9	15	80	67	27	48	31.375	1.3
28	36747	179	48	32	32	18	67	27	27	18	33.625	1.3
29	36748	180	15	18	80	80	48	32	39	94	50.750	1.5
30	36749	181	39	15	32	56	80	39	27	15	37.875	1.4

JUNE 1959

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MUD. JULIAN DAY	DAY	1---SOLAR FLUX(10.7CM OTTAWA)---	210.1	221.0	1	152	182.3	168.4	177.0
1	36720	152	1	193.0	215.6	209.8	220.9	133	182.1	167.9
2	36721	153	1	198.0	215.5	209.4	220.7	152	182.0	167.4
3	36722	154	1	198.0	215.1	209.4	220.7	152	182.0	167.4
4	36723	155	1	190.0	213.1	208.6	220.1	166	181.2	166.8
5	36724	156	1	197.0	211.2	208.1	219.5	162	178.4	166.3
6	36725	157	1	210.0	209.4	208.1	218.9	180	175.3	166.4
7	36726	158	1	198.0	206.9	208.1	217.9	181	171.4	166.1
8	36727	159	1	213.0	205.0	208.6	217.1	192	168.3	166.5
9	36728	160	1	223.0	203.4	209.2	216.3	188	165.7	167.1
10	36729	161	1	226.0	202.9	209.9	215.6	160	163.3	167.7
11	36730	162	1	226.0	202.8	210.8	215.1	172	162.1	168.8
12	36731	163	1	220.0	202.7	211.2	214.7	176	161.9	169.9
13	36732	164	1	212.0	202.3	211.4	214.2	165	161.0	170.5
14	36733	165	1	208.0	202.1	211.5	213.7	170	160.0	171.2
15	36734	166	1	225.0	203.0	211.9	213.5	158	159.0	171.6
16	36735	167	1	220.0	203.7	212.1	213.1	172	158.4	171.4
17	36736	168	1	225.0	204.6	212.3	212.9	161	158.8	170.9
18	36737	169	1	228.0	205.6	212.6	212.6	174	159.9	170.4
19	36738	170	1	237.0	207.1	213.0	212.4	182	161.1	169.9
20	36739	171	1	226.0	208.1	213.2	212.0	173	162.2	169.9
21	36740	172	1	228.0	209.0	213.4	211.7	162	161.6	169.7
22	36741	173	1	219.0	209.5	213.6	211.5	170	161.0	169.9
23	36742	174	1	220.0	210.0	213.6	211.5	168	161.4	170.8
24	36743	175	1	232.0	211.3	214.1	211.7	157	162.3	171.5
25	36744	176	1	233.0	213.4	214.8	212.2	180	165.3	172.7
26	36745	177	1	238.0	215.7	215.6	212.7	184	168.2	174.0
27	36746	178	1	240.0	218.0	216.7	213.0	186	170.2	175.5
28	36747	179	1	224.0	219.1	217.4	213.1	160	170.5	176.4
29	36748	180	1	219.0	219.9	217.7	213.2	158	171.4	176.8
30	36749	181	1	196.0	219.8	217.5	212.9	147	171.3	176.6

MONTHLY AVERAGE 217.5  
MONTHLY SMOOTHED 211.9

168.7  
161.4

# GEOMAGNETIC PLANETARY INDICES

# QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

[illegible]

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

167

JULY 1959

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1			
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	36750 182	1 188.0	219.7	216.4	212.3	1 147	170.6	175.9	168.1
2	36751 183	1 174.0	218.9	215.0	211.7	1 118	168.9	173.6	167.2
3	36752 184	1 171.0	217.4	213.4	211.2	1 138	167.4	171.4	166.7
4	36753 185	1 177.0	216.7	211.8	211.0	1 158	166.5	169.0	166.3
5	36754 186	1 176.0	215.3	210.1	210.8	1 136	164.4	166.4	165.8
6	36755 187	1 188.0	214.0	208.7	210.9	1 127	162.2	164.0	165.5
7	36756 188	1 192.0	212.7	207.8	210.8	1 120	160.7	162.0	165.4
8	36757 189	1 185.0	211.1	207.0	210.9	1 131	159.2	160.6	165.6
9	36758 190	1 185.0	209.9	206.3	210.8	1 129	157.4	159.6	165.8
10	36759 191	1 201.0	209.4	205.9	210.7	1 127	156.0	158.5	165.7
11	36760 192	1 194.0	208.9	205.5	210.6	1 133	154.7	157.3	165.7
12	36761 193	1 234.0	209.3	206.1	211.0	1 135	153.8	156.4	165.7
13	36762 194	1 243.0	210.1	206.9	211.4	1 160	153.4	155.9	165.4
14	36763 195	1 264.0	211.6	208.1	212.0	1 180	154.1	156.4	165.3
15	36764 196	1 245.0	212.2	208.9	212.5	1 176	154.1	157.0	165.0
16	36765 197	1 261.0	213.1	210.1	213.0	1 190	154.4	157.5	164.8
17	36766 198	1 240.0	213.6	210.8	213.3	1 193	155.2	158.7	165.0
18	36767 199	1 231.0	213.7	211.4	213.5	1 195	156.4	159.0	165.3
19	36768 200	1 222.0	213.8	211.7	213.7	1 184	156.9	158.9	165.6
20	36769 201	1 208.0	213.4	211.7	213.5	1 160	155.9	158.6	165.8
21	36770 202	1 189.0	211.8	211.6	213.3	1 132	155.0	158.6	166.0
22	36771 203	1 178.0	209.7	211.6	213.1	1 94	151.8	153.5	165.7
23	36772 204	1 178.0	207.5	211.6	212.9	1 113	149.1	158.7	165.7
24	36773 205	1 181.0	205.3	211.6	212.9	1 108	146.3	158.2	165.8
25	36774 206	1 182.0	203.8	211.4	212.8	1 118	144.7	157.6	165.9
26	36775 207	1 182.0	202.4	211.1	212.6	1 134	143.8	157.6	165.8
27	36776 208	1 200.0	202.6	211.2	212.5	1 156	144.1	157.7	165.8
28	36777 209	1 205.0	203.2	211.5	212.0	1 161	145.4	158.0	165.7
29	36778 210	1 207.0	204.4	211.6	211.5	1 162	147.8	158.4	165.0
30	36779 211	1 204.0	205.6	211.5	210.8	1 193	149.8	158.6	164.2
31	36780 212	1 206.0	206.8	211.7	210.1	1 190	151.0	158.8	163.0

MONTHLY AVERAGE 203.0  
MONTHLY SMOOTHED 206.4

149.6  
155.8

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

169



## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	MAGNETIC CHARACTER										
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	
1	36781	213	18	18	32	22	22	22	18	9	20.125	1.0	
2	36782	214	27	27	22	5	6	12	27	6	16.500	.9	
3	36783	215	15	15	48	15	22	22	15	5	19.625	1.0	
4	36784	216	6	12	6	39	39	22	12	18	19.250	1.0	
5	36785	217	7	5	7	5	12	18	12	7	9.125	.6	
6	36786	218	4	15	12	18	27	32	48	22	22.250	1.1	
7	36787	219	16	15	12	9	12	22	15	9	14.000	1.0	
8	36788	220	9	6	12	27	18	15	4	22	14.125	.8	
9	36789	221	27	5	10	18	27	32	39	12	22.250	1.1	
10	36790	222	15	32	6	5	15	12	18	9	14.000	.8	
11	36791	223	12	15	7	5	7	12	3	6	8.375	.4	
12	36792	224	6	5	6	4	6	5	3	7	5.250	.2	
13	36793	225	6	6	5	6	5	5	7	6	5.750	.3	
14	36794	226	6	6	5	5	6	6	7	5	5.750	.3	
15	36795	227	12	6	5	5	18	27	48	32	67	26.875	1.2
16	36796	228	32	32	111	154	236	207	111	154	129.625	2.0	
17	36797	229	179	236	111	94	56	132	48	56	114.000	1.8	
18	36798	230	15	32	56	15	32	27	39	12	20.500	1.2	
19	36799	231	16	39	32	15	7	15	27	15	21.000	1.1	
20	36800	232	12	67	67	48	27	9	48	27	38.125	1.4	
21	36801	233	39	22	27	48	18	27	56	39	34.500	1.3	
22	36802	234	32	22	32	15	15	22	48	27	26.625	1.1	
23	36803	235	22	18	22	22	39	39	32	32	28.250	1.2	
24	36804	236	22	22	48	18	9	15	7	15	19.500	1.1	
25	36805	237	15	18	15	18	15	18	4	15	14.750	.9	
26	36806	238	15	6	15	6	4	5	7	6	6.000	.4	
27	36807	239	12	4	7	5	4	2	2	2	4.750	.2	
28	36808	240	0	3	5	4	3	3	2	5	3.125	.1	
29	36809	241	15	6	5	12	12	27	12	12	12.625	.7	
30	36810	242	15	7	7	7	9	15	9	6	9.375	.6	
31	36811	243	6	9	9	9	15	9	9	9	9.375	.6	

AUGUST 1959

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1--SOLAR FLUX (10.7CM OTTAWA)	209.5	211.7	209.5	194	153.1	158.8	162.0
			1--SOLAR FLUX (10.7CM OTTAWA)	209.0	211.8	209.0	218	156.2	159.2	161.4
			1--SOLAR FLUX (10.7CM OTTAWA)	209.0	212.1	209.0	213	159.7	160.2	161.2
			1--SOLAR FLUX (10.7CM OTTAWA)	209.1	212.2	209.1	225	163.1	161.2	161.5
			1--SOLAR FLUX (10.7CM OTTAWA)	209.2	212.4	209.2	212	166.2	161.8	161.8
			1--SOLAR FLUX (10.7CM OTTAWA)	209.2	212.7	209.2	207	169.2	162.6	162.1
			1--SOLAR FLUX (10.7CM OTTAWA)	209.2	212.8	209.2	179	170.9	162.8	161.9
			1--SOLAR FLUX (10.7CM OTTAWA)	209.3	212.4	209.3	175	172.4	163.1	161.7
			1--SOLAR FLUX (10.7CM OTTAWA)	209.3	212.1	209.3	170	172.7	163.1	161.5
			1--SOLAR FLUX (10.7CM OTTAWA)	209.3	211.6	209.3	155	171.8	162.9	161.6
			1--SOLAR FLUX (10.7CM OTTAWA)	209.3	211.1	209.3	180	172.0	163.1	162.0
			1--SOLAR FLUX (10.7CM OTTAWA)	209.3	210.4	209.3	160	170.9	162.6	162.1
			1--SOLAR FLUX (10.7CM OTTAWA)	209.2	209.8	209.2	125	168.3	161.8	161.9
			1--SOLAR FLUX (10.7CM OTTAWA)	209.1	209.1	209.0	139	166.3	161.3	161.4
			1--SOLAR FLUX (10.7CM OTTAWA)	208.5	208.5	208.9	144	164.8	160.9	160.9
			1--SOLAR FLUX (10.7CM OTTAWA)	208.2	208.2	208.8	157	164.7	160.3	160.6
			1--SOLAR FLUX (10.7CM OTTAWA)	209.1	208.1	209.1	166	165.9	160.4	161.1
			1--SOLAR FLUX (10.7CM OTTAWA)	207.9	207.9	209.6	174	168.9	160.3	162.0
			1--SOLAR FLUX (10.7CM OTTAWA)	207.5	207.5	210.2	182	171.4	160.3	162.9
			1--SOLAR FLUX (10.7CM OTTAWA)	207.2	207.2	210.8	180	174.1	160.2	163.5
			1--SOLAR FLUX (10.7CM OTTAWA)	207.3	207.3	211.3	200	177.1	160.9	164.1
			1--SOLAR FLUX (10.7CM OTTAWA)	207.8	207.8	211.8	204	179.7	161.8	165.0
			1--SOLAR FLUX (10.7CM OTTAWA)	209.0	209.0	212.6	205	181.6	162.9	165.7
			1--SOLAR FLUX (10.7CM OTTAWA)	210.1	210.1	213.3	217	182.9	164.1	166.3
			1--SOLAR FLUX (10.7CM OTTAWA)	211.5	211.5	214.0	212	184.0	165.9	166.9
			1--SOLAR FLUX (10.7CM OTTAWA)	213.1	213.1	214.6	220	185.0	167.4	167.4
			1--SOLAR FLUX (10.7CM OTTAWA)	215.0	215.0	215.6	231	186.5	168.8	168.0
			1--SOLAR FLUX (10.7CM OTTAWA)	217.3	217.3	216.7	274	189.5	171.3	169.0
			1--SOLAR FLUX (10.7CM OTTAWA)	219.6	219.6	217.7	301	192.9	174.5	170.4
			1--SOLAR FLUX (10.7CM OTTAWA)	221.8	221.8	218.7	292	195.8	177.7	172.0
			1--SOLAR FLUX (10.7CM OTTAWA)	224.0	224.0	219.7	284	198.0	180.6	173.4

MONTHLY AVERAGE 234.0  
MONTHLY SMOOTHED 201.8

199.6  
151.3

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP										SUM KP	AVG. KP
		1	2	3	4	5	6	7	8	9			
1	36812 244	3.333	3.000	3.333	3.667	3.000	4.000	4.333	2.667	27.333	3.417		
2	36813 245	4.333	5.333	5.000	4.667	2.667	3.333	4.000	4.667	34.000	4.250		
3	36814 246	3.000	2.667	3.333	3.667	3.000	3.667	4.000	7.000	30.333	3.792		
4	36815 247	6.667	7.333	7.000	6.333	6.000	7.000	5.333	5.667	51.333	6.417		
5	36816 248	5.000	3.667	4.000	4.000	4.000	3.667	4.333	5.667	34.333	4.292		
6	36817 249	5.667	3.667	3.667	2.667	2.333	2.333	1.000	.667	22.000	2.750		
7	36818 250	1.333	.667	1.333	2.000	2.333	3.333	1.667	1.667	14.333	1.792		
8	36819 251	1.667	2.000	2.667	3.333	2.333	3.000	1.333	2.333	18.667	2.333		
9	36820 252	1.667	1.000	1.000	2.333	1.000	1.667	1.333	2.000	12.000	1.500		
10	36821 253	1.667	1.333	1.000	1.333	1.667	2.000	1.667	3.667	14.333	1.792		
11	36822 254	2.000	3.333	3.000	3.667	3.667	2.333	3.000	2.667	23.667	2.958		
12	36823 255	4.667	3.000	2.667	2.667	2.333	3.000	2.000	1.333	21.667	2.708		
13	36824 256	3.333	1.000	2.000	1.333	1.667	1.000	2.333	5.333	18.000	2.250		
14	36825 257	3.667	3.333	3.667	3.333	3.667	3.333	2.000	3.333	26.333	3.292		
15	36826 258	2.333	1.667	3.333	2.667	3.667	3.333	4.667	3.667	25.333	3.167		
16	36827 259	4.333	4.667	2.333	2.000	2.333	2.667	2.333	2.333	23.333	2.917		
17	36828 260	2.333	2.667	2.000	3.000	3.333	4.000	5.000	5.000	27.333	3.417		
18	36829 261	3.333	2.667	3.000	4.667	4.000	3.667	4.333	5.000	30.667	3.833		
19	36830 262	6.000	6.000	3.333	5.000	4.333	2.333	2.667	2.667	32.333	4.042		
20	36831 263	4.000	5.000	5.333	5.000	6.000	5.667	6.333	5.667	43.000	5.375		
21	36832 264	5.667	6.667	7.000	4.667	6.000	6.667	6.333	5.333	48.333	6.042		
22	36833 265	6.333	6.667	7.000	5.667	5.667	5.000	5.333	2.333	44.000	5.500		
23	36834 266	2.667	2.667	3.667	3.667	2.333	4.667	4.333	5.000	29.000	3.625		
24	36835 267	4.000	4.000	3.667	3.333	5.000	3.000	3.333	3.000	29.333	3.667		
25	36836 268	5.000	4.667	4.000	4.333	4.000	5.667	3.333	4.667	35.667	4.458		
26	36837 269	4.000	3.000	3.333	3.667	4.667	3.000	3.667	4.000	29.333	3.667		
27	36838 270	3.000	3.333	3.667	4.000	3.667	4.333	3.000	3.333	28.333	3.542		
28	36839 271	4.000	3.000	3.667	3.683	3.667	2.667	3.333	2.667	26.333	3.292		
29	36840 272	3.000	1.667	2.000	3.333	2.333	1.333	.667	2.667	17.000	2.125		
30	36841 273	2.000	1.333	1.667	3.333	3.333	3.000	3.333	2.667	20.667	2.583		

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

173

SEPTEMBER 1959

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	-----SOLAR FLUX(10.7CM OTTAWA)-----			I--RELATIVE ZURICH SUNSPOT NUMBER--I			I-----RUNNING MEANS-----I		
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	36812 244	1 282.0	236.6	225.8	220.5	1 290	200.9	183.5	174.8	
2	36813 245	1 269.0	238.2	227.1	221.2	1 256	202.7	195.9	176.0	
3	36814 246	1 257.0	239.9	228.2	221.8	1 202	203.5	137.2	176.4	
4	36815 247	1 239.0	241.1	228.3	222.0	1 161	203.0	187.7	176.4	
5	36816 248	1 220.0	241.7	227.9	222.0	1 148	202.2	187.5	176.1	
6	36817 249	1 200.0	241.7	226.7	221.7	1 152	202.1	186.9	176.0	
7	36818 250	1 192.0	241.4	225.7	221.2	1 135	200.4	186.2	175.5	
8	36819 251	1 199.0	241.5	224.6	220.7	1 136	199.5	185.2	174.9	
9	36820 252	1 209.0	242.0	224.0	220.5	1 157	200.7	184.5	174.7	
10	36821 253	1 201.0	242.5	223.4	220.2	1 141	200.8	183.5	174.5	
11	36822 254	1 203.0	243.0	223.1	220.0	1 155	201.2	183.0	174.3	
12	36823 255	1 195.0	242.7	222.9	219.7	1 170	201.7	183.2	174.1	
13	36824 256	1 189.0	241.4	222.9	219.2	1 148	201.0	183.5	174.0	
14	36825 257	1 176.0	240.2	223.2	218.7	1 151	200.1	184.5	173.6	
15	36826 258	1 184.0	239.1	223.3	218.0	1 161	199.4	185.4	173.3	
16	36827 259	1 168.0	237.0	223.1	217.1	1 130	197.5	185.8	172.6	
17	36828 260	1 170.0	234.8	222.8	216.5	1 87	193.3	185.2	171.7	
18	36829 261	1 167.0	232.0	222.6	215.8	1 100	189.5	184.6	171.0	
19	36830 262	1 175.0	228.7	222.1	215.6	1 120	186.3	183.9	170.7	
20	36831 263	1 185.0	226.5	221.7	215.5	1 149	183.8	183.4	170.7	
21	36832 264	1 142.0	223.9	221.3	215.6	1 143	181.3	182.6	171.0	
22	36833 265	1 180.0	221.3	221.0	215.9	1 157	178.9	182.0	171.2	
23	36834 266	1 182.0	217.7	220.5	215.9	1 143	175.7	181.1	171.1	
24	36835 267	1 183.0	213.3	219.9	216.0	1 155	171.3	180.4	171.3	
25	36836 268	1 175.0	208.4	218.9	215.8	1 132	165.0	178.9	171.4	
26	36837 269	1 164.0	202.9	217.5	215.5	1 110	158.3	177.0	171.2	
27	36838 270	1 163.0	197.7	216.2	215.2	1 102	151.5	174.7	170.9	
28	36839 271	1 162.0	193.2	214.9	214.9	1 91	144.1	172.5	170.4	
29	36840 272	1 154.0	189.1	213.7	214.4	1 87	137.9	170.3	169.9	
30	36841 273	1 156.0	185.4	212.6	214.0	1 86	133.6	168.6	169.3	

MONTHLY AVERAGE 193.8  
MONTHLY SMOOTHED 196.8

145.2  
146.3

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

175

OCTOBER 1959

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

MAGNETIC  
CHARACTER

APG  
AP

AP 8

AP 7

AP 6

AP 5

AP 4

AP 3

AP 2

AP 1

DAY

MOD.

DAY

OF

MONTH

YEAR

1 2 3 4 5 6 7 8

1	36842	274	27	56	80	67	27	27	27	39	43.750	1.3
2	36843	275	12	67	48	27	7	9	9	6	23.125	1.0
3	36844	276	4	12	27	15	18	67	111	111	45.625	1.5
4	36845	277	48	132	56	39	67	15	32	18	50.875	1.3
5	36846	278	39	32	15	12	18	32	80	67	36.875	1.3
6	36847	279	67	67	56	56	39	48	56	32	52.625	1.5
7	36848	280	18	22	12	18	12	5	9	27	15.375	.9
8	36849	281	15	12	6	12	5	6	4	3	7.075	.3
9	36850	282	12	5	6	6	3	4	12	2	6.250	.3
10	36851	283	4	4	4	4	3	9	5	3	4.500	.2
11	36852	284	4	0	4	2	0	0	6	5	2.625	.2
12	36853	285	4	0	2	2	6	9	18	12	6.625	.4
13	36854	286	4	3	5	5	5	5	3	3	4.125	.2
14	36855	287	6	6	7	18	22	9	18	15	12.625	.8
15	36856	288	15	18	9	15	15	12	18	18	15.000	1.0
16	36857	289	6	4	3	2	2	4	7	3	3.875	.1
17	36858	290	4	6	12	32	22	15	22	22	16.875	1.0
18	36859	291	39	32	39	56	32	39	22	32	35.375	1.2
19	36860	292	22	27	9	18	6	5	15	18	15.000	.9
20	36861	293	22	7	15	7	5	2	2	2	7.750	.4
21	36862	294	2	3	3	4	5	12	5	12	5.750	.4
22	36863	295	18	22	18	18	18	32	12	12	18.750	1.2
23	36864	296	22	12	12	18	6	2	2	0	9.250	.5
24	36865	297	0	3	7	6	7	7	6	7	5.625	.3
25	36866	298	15	39	22	32	22	15	9	22	22.000	1.2
26	36867	299	22	22	27	27	48	32	15	18	26.375	1.2
27	36868	300	9	18	22	15	9	9	4	4	11.250	.7
28	36869	301	3	3	9	6	4	2	2	0	3.625	.0
29	36870	302	2	5	5	4	6	3	2	18	5.625	.2
30	36871	303	56	27	12	9	18	12	27	67	28.500	1.3
31	36872	304	32	15	18	48	32	48	48	67	38.500	1.5

OCTOBER 1959

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	212.9	1	65	130.0	166.5	168.5
1	36842	274	1	150.0	182.1	211.6	210.5	211.7	167.4
2	36843	275	1	145.0	179.3	210.5	209.5	210.2	167.4
3	36844	276	1	144.0	177.3	209.5	208.5	209.0	166.3
4	36845	277	1	148.0	175.6	208.5	207.7	207.7	165.4
5	36846	278	1	155.0	174.0	207.7	207.4	206.9	164.5
6	36847	279	1	174.0	172.7	207.4	207.0	206.1	163.7
7	36848	280	1	169.0	171.5	207.0	206.4	205.3	162.9
8	36849	281	1	155.0	169.7	206.4	205.5	204.6	162.0
9	36850	282	1	153.0	168.2	205.5	204.1	203.8	161.3
10	36851	283	1	149.0	166.7	204.1	203.6	203.5	160.8
11	36852	284	1	147.0	164.9	203.6	203.1	202.8	160.7
12	36853	285	1	154.0	163.8	203.6	203.1	202.5	160.3
13	36854	286	1	155.0	163.3	203.1	202.8	202.5	159.9
14	36855	287	1	153.0	162.7	202.8	202.5	202.1	159.7
15	36856	288	1	161.0	162.4	202.5	202.1	201.7	159.3
16	36857	289	1	168.0	162.2	202.1	201.7	201.3	158.8
17	36858	290	1	170.0	161.6	201.7	201.3	200.9	157.9
18	36859	291	1	172.0	161.3	201.3	200.9	200.5	157.0
19	36860	292	1	174.0	160.7	200.9	200.5	200.1	156.0
20	36861	293	1	176.0	160.5	200.5	200.1	199.5	155.0
21	36862	294	1	176.0	160.3	200.1	199.5	198.6	154.0
22	36863	295	1	186.0	160.7	199.5	198.6	198.2	153.0
23	36864	296	1	184.0	161.5	198.6	198.2	197.9	152.0
24	36865	297	1	182.0	162.2	198.2	197.9	197.7	151.0
25	36866	298	1	187.0	163.1	197.9	197.5	197.2	150.1
26	36867	299	1	191.0	164.3	197.5	197.2	196.6	149.1
27	36868	300	1	185.0	165.4	197.2	196.6	196.2	148.5
28	36869	301	1	179.0	166.4	196.6	196.2	195.8	147.9
29	36870	302	1	174.0	167.5	196.2	195.8	195.3	147.4
30	36871	303	1	168.0	168.4	195.8	195.3	194.9	147.1
31	36872	304	1	162.0	168.9	195.3	194.9	194.5	146.6

MONTHLY AVERAGE 166.1  
MONTHLY SMOOTHED 191.7

111.4  
141.1



NOVEMBER 1959

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	36873 305	3.667	5.000	6.333	5.333	5.333	3.667	3.667	3.667	36.667	4.583
2	36874 306	5.000	5.667	6.333	5.000	5.667	5.667	6.333	5.667	45.333	5.667
3	36875 307	5.667	4.667	4.667	5.000	4.667	5.667	5.000	4.667	40.000	5.000
4	36876 308	2.000	2.667	4.667	4.333	5.000	4.667	6.000	4.333	33.667	4.208
5	36877 309	4.667	5.000	5.000	4.000	4.000	2.667	3.000	1.667	30.000	3.750
6	36878 310	4.333	4.000	3.667	4.333	3.333	2.333	3.000	4.333	29.333	3.667
7	36879 311	1.333	3.667	2.667	1.000	1.333	2.333	3.667	2.333	18.333	2.292
8	36880 312	1.333	3.667	2.667	3.333	3.333	2.667	2.667	1.333	20.667	2.583
9	36881 313	.667	2.000	.000	1.333	2.000	2.667	3.667	3.000	15.333	1.917
10	36882 314	3.000	2.333	2.000	2.333	2.667	1.333	2.000	3.333	19.000	2.375
11	36883 315	2.333	1.667	.667	1.667	1.000	.667	1.333	1.667	11.000	1.375
12	36884 316	2.000	2.333	.667	1.333	1.000	1.667	2.667	2.333	14.000	1.750
13	36885 317	2.333	1.667	2.000	2.667	3.333	2.667	2.667	3.667	21.000	2.625
14	36886 318	4.333	3.667	4.000	4.667	4.667	4.000	3.667	3.000	32.000	4.000
15	36887 319	2.667	1.667	1.667	1.000	.667	.667	.000	1.000	9.333	1.167
16	36888 320	.667	.333	1.667	1.333	2.333	3.333	2.667	2.667	15.000	1.875
17	36889 321	2.333	4.333	2.333	3.333	3.333	.667	.333	.667	17.333	2.167
18	36890 322	1.667	2.333	2.333	2.333	3.000	3.000	4.667	1.667	21.000	2.625
19	36891 323	2.000	2.667	3.667	3.333	3.000	2.333	.667	1.333	19.000	2.375
20	36892 324	3.000	1.667	1.667	1.333	.000	.000	.333	.667	8.333	1.042
21	36893 325	1.000	2.333	2.000	3.333	4.333	4.000	3.000	3.000	23.000	2.875
22	36894 326	3.333	4.000	3.333	3.667	3.333	2.333	3.333	2.333	25.667	3.208
23	36895 327	5.333	5.667	5.333	5.000	4.333	3.333	4.333	2.000	35.333	4.417
24	36896 328	2.667	2.000	1.667	1.333	2.667	2.000	1.667	1.333	15.333	1.917
25	36897 329	2.333	1.333	2.000	2.667	3.333	2.000	1.333	3.000	18.000	2.250
26	36898 330	2.333	2.000	3.333	4.000	3.000	1.667	1.667	3.333	21.333	2.667
27	36899 331	3.667	2.333	3.000	2.000	2.000	2.000	2.667	4.667	22.333	2.792
28	36900 332	6.000	8.000	7.333	6.667	4.333	3.667	4.000	4.000	44.000	5.500
29	36901 333	3.667	2.667	1.667	4.000	3.333	3.000	2.667	1.667	22.667	2.833
30	36902 334	2.667	2.333	5.333	5.667	5.333	6.000	4.000	4.667	36.000	4.500

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH		MUD. - DAY		JULIAN OF DAY		AP		AP		AP		AP		AP		AP		MAGNETIC CHARACTER	
1	36873	305	22	48	56	56	22	22	22	22	22	22	22	22	22	22	22	42.750	1.3
2	36874	306	48	67	94	67	67	67	67	67	67	67	67	67	67	67	67	69.000	1.6
3	36875	307	67	39	48	39	48	39	48	39	48	39	48	39	48	39	48	48.250	.4
4	36876	308	7	12	39	32	48	39	48	39	48	39	48	39	48	39	48	36.125	1.3
5	36877	309	39	48	27	27	12	15	15	15	15	15	15	15	15	15	15	27.750	1.1
6	36878	310	32	27	22	32	18	7	15	15	15	15	15	15	15	15	15	23.375	1.1
7	36879	311	5	22	12	4	5	9	22	9	12	5	12	5	12	5	12	11.000	.7
8	36880	312	5	22	12	18	18	9	12	5	12	5	12	5	12	5	12	12.625	.6
9	36881	313	3	7	0	5	7	12	22	15	15	15	15	15	15	15	15	8.875	.7
10	36882	314	15	9	7	9	12	5	7	18	10.250	.6						10.250	.6
11	36883	315	9	6	3	6	4	3	5	6	5.250	.1						5.250	.1
12	36884	316	7	9	3	5	4	6	12	9	6.875	.2						6.875	.2
13	36885	317	9	5	7	12	18	12	12	22	12.250	.8						12.250	.8
14	36886	318	32	22	27	39	39	27	22	15	27.875	1.2						27.875	1.2
15	36887	319	12	6	6	4	3	3	0	4	4.750	.1						4.750	.1
16	36888	320	3	2	6	5	9	18	12	12	8.375	.5						8.375	.5
17	36889	321	9	32	9	18	18	3	2	3	11.750	.5						11.750	.5
18	36890	322	6	9	9	9	15	15	39	6	13.500	.9						13.500	.9
19	36891	323	7	12	22	18	15	9	3	5	11.375	.5						11.375	.5
20	36892	324	15	6	5	5	0	0	2	3	4.500	.1						4.500	.1
21	36893	325	4	9	7	18	32	27	15	15	15.875	1.0						15.875	1.0
22	36894	326	18	27	18	22	18	9	18	9	17.375	1.0						17.375	1.0
23	36895	327	56	67	56	48	32	10	32	7	39.500	1.4						39.500	1.4
24	36896	328	12	7	6	5	12	7	6	5	7.500	.2						7.500	.2
25	36897	329	9	5	7	12	18	7	5	15	9.750	.6						9.750	.6
26	36898	330	9	7	18	27	15	6	6	18	13.250	.7						13.250	.7
27	36899	331	22	9	15	7	7	7	12	39	14.750	.8						14.750	.8
28	36900	332	80	207	154	111	32	22	27	27	82.500	1.7						82.500	1.7
29	36901	333	22	12	6	27	10	15	12	6	14.750	.8						14.750	.8
30	36902	334	12	9	56	67	56	80	27	39	43.250	1.4						43.250	1.4

NOVEMBER 1959

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1				
DAY	YEAR	DAILY 27-DAY	44-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY			
1	36873	305	160.0	169.1	171.6	194.9	136	116.4	119.7	146.3
2	36874	306	167.0	168.9	170.8	194.6	121	116.2	119.1	146.3
3	36875	307	166.0	168.8	170.2	194.3	97	115.0	118.2	145.8
4	36876	308	155.0	168.8	169.3	193.8	103	114.5	117.3	145.2
5	36877	309	152.0	168.8	168.5	193.2	91	114.1	115.8	144.4
6	36878	310	158.0	169.1	167.9	192.4	98	114.3	114.9	143.6
7	36879	311	162.0	169.7	167.3	191.6	114	115.3	114.2	142.9
8	36880	312	174.0	170.4	167.1	191.1	131	117.2	113.6	142.2
9	36881	313	185.0	171.5	167.4	190.6	136	119.3	113.8	141.7
10	36882	314	196.0	173.1	167.9	190.2	142	120.6	114.8	141.0
11	36883	315	195.0	174.4	168.4	189.6	153	122.9	115.8	140.3
12	36884	316	194.0	175.3	168.8	188.8	154	124.3	116.4	139.7
13	36885	317	193.0	176.2	168.9	188.1	149	125.9	116.4	138.9
14	36886	318	189.0	176.8	169.0	187.3	137	126.7	116.3	137.9
15	36887	319	164.0	177.2	169.0	186.4	127	127.3	115.7	136.8
16	36888	320	177.0	177.2	168.9	185.2	113	127.4	115.2	135.3
17	36889	321	163.0	176.7	168.5	183.4	83	126.4	113.8	133.0
18	36890	322	157.0	175.6	168.2	181.6	73	124.3	112.7	130.2
19	36891	323	159.0	174.7	168.1	179.7	69	121.9	112.0	127.4
20	36892	324	156.0	173.7	167.9	177.9	65	119.0	111.3	124.7
21	36893	325	156.0	172.6	167.8	176.3	70	116.5	110.9	122.0
22	36894	326	175.0	172.0	168.1	175.1	110	115.9	111.3	120.2
23	36895	327	189.0	172.1	168.7	174.3	131	116.0	112.2	119.3
24	36896	328	207.0	173.1	169.8	173.9	151	116.9	113.8	119.2
25	36897	329	229.0	175.2	171.4	174.0	162	118.1	115.4	119.4
26	36898	330	224.0	177.3	172.8	174.3	161	119.2	116.7	119.5
27	36899	331	221.0	179.4	174.2	174.7	157	119.8	117.7	119.7
28	36900	332	230.0	182.0	175.6	175.0	151	120.3	118.4	119.9
29	36901	333	226.0	184.2	176.6	175.3	161	121.8	119.0	120.0
30	36902	334	233.0	186.7	177.8	175.7	175	124.7	119.6	120.4

MONTHLY AVERAGE 184.5

124.0

MONTHLY SMOOTHED 187.8

137.2

DECEMBER 1959

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36903 335	5.000	4.333	4.333	4.333	4.667	4.333	3.333	3.000	1.667	30.667	3.833
2	36904 336	3.333	4.333	4.333	5.000	5.000	4.000	4.333	4.000	4.000	33.333	4.167
3	36905 337	5.000	4.667	5.000	5.000	5.333	5.333	5.667	4.000	5.333	40.333	5.042
4	36906 338	3.333	4.000	2.667	2.667	2.667	2.000	1.667	2.333	2.333	21.000	2.625
5	36907 339	.000	.000	4.000	4.667	4.667	6.333	6.667	7.667	6.333	35.667	4.458
6	36908 340	3.000	4.333	3.333	.667	.333	1.667	2.000	3.000	2.333	24.333	3.042
7	36909 341	3.000	2.667	.667	.667	.333	.667	1.667	.667	1.333	12.000	1.500
8	36910 342	1.333	1.333	2.000	1.667	1.000	.667	2.667	2.333	2.000	13.667	1.708
9	36911 343	1.333	1.333	1.333	2.667	2.667	3.000	2.000	.667	2.000	15.667	1.958
10	36912 344	2.333	1.667	1.667	.667	.667	.333	1.333	2.333	1.333	11.667	1.458
11	36913 345	.333	2.000	1.667	2.000	2.000	1.333	2.333	.667	1.667	12.000	1.500
12	36914 346	2.333	4.333	2.667	3.000	3.000	2.667	2.000	3.000	4.000	24.000	3.000
13	36915 347	4.000	3.333	3.333	2.333	1.667	1.000	2.333	3.000	5.333	23.000	2.875
14	36916 348	4.667	4.333	5.333	5.333	5.000	4.667	5.333	4.667	3.000	37.000	4.625
15	36917 349	3.333	3.333	4.333	4.333	4.000	3.333	3.333	4.000	4.333	31.000	3.875
16	36918 350	3.333	2.333	3.000	3.333	3.333	3.667	4.000	2.333	3.000	25.000	3.125
17	36919 351	3.000	1.333	2.667	2.667	2.667	2.000	.667	1.333	1.667	15.333	1.917
18	36920 352	2.000	1.667	3.000	3.000	2.667	3.667	2.000	1.333	2.000	18.333	2.292
19	36921 353	2.333	2.667	3.333	3.333	3.667	4.000	2.667	2.000	1.000	21.667	2.708
20	36922 354	2.333	2.000	1.333	1.333	1.667	1.333	2.000	1.667	1.667	14.000	1.750
21	36923 355	1.333	1.333	1.333	.667	.667	.667	.333	1.000	1.000	7.667	.958
22	36924 356	1.667	.333	.333	.333	.333	1.000	2.333	2.000	3.000	11.000	1.375
23	36925 357	2.667	2.667	3.667	3.667	2.667	2.667	6.000	4.333	4.667	29.333	3.667
24	36926 358	4.000	1.333	4.000	4.000	4.000	3.333	1.333	1.667	2.000	21.667	2.708
25	36927 359	2.000	3.000	3.000	2.000	2.667	1.667	1.667	2.333	1.333	16.667	2.083
26	36928 360	2.667	3.667	3.333	3.333	4.333	4.333	4.667	4.000	4.667	30.667	3.833
27	36929 361	4.667	4.667	4.000	5.667	5.667	4.333	4.667	4.000	4.333	36.333	4.542
28	36930 362	5.000	4.667	4.333	4.667	5.333	5.333	5.333	4.667	3.000	37.000	4.625
29	36931 363	4.000	4.000	4.000	3.667	3.667	3.667	2.667	1.000	2.000	25.000	3.125
30	36932 364	1.667	3.000	3.000	3.667	3.667	3.667	3.000	2.667	1.000	21.667	2.708
31	36933 365	1.667	1.667	2.667	2.667	2.000	1.000	1.000	2.333	1.333	13.667	1.708

DECEMBER 1957

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	36903	335	48	32	32	39	32	10	15	6	27.750	1.1			
2	36904	336	18	32	32	48	27	32	27	27	30.375	1.2			
3	36905	337	48	39	48	56	56	67	27	56	49.625	1.5			
4	36906	338	18	27	12	12	7	6	9	9	12.500	.7			
5	36907	339	0	0	27	39	94	111	179	94	68.000	1.7			
6	36908	340	15	32	18	18	15	7	15	9	16.125	.9			
7	36909	341	15	12	3	2	6	6	3	5	6.500	.3			
8	36910	342	5	7	6	4	3	12	9	7	6.625	.3			
9	36911	343	5	5	12	12	15	7	3	7	8.250	.3			
10	36912	344	9	6	6	3	2	5	9	5	5.625	.2			
11	36913	345	2	7	6	7	5	9	3	6	5.625	.2			
12	36914	346	9	32	12	15	12	7	15	27	16.125	1.0			
13	36915	347	27	18	9	6	4	9	15	56	18.000	1.1			
14	36916	348	39	32	56	48	39	56	39	15	40.500	1.4			
15	36917	349	16	32	32	27	18	18	27	32	25.500	1.1			
16	36918	350	18	9	15	18	22	27	9	15	16.625	1.0			
17	36919	351	15	5	12	12	7	3	5	6	8.125	.3			
18	36920	352	7	6	15	12	22	7	5	7	10.125	.5			
19	36921	353	9	12	18	22	27	12	7	4	13.875	.8			
20	36922	354	9	7	5	6	5	7	6	6	6.375	.3			
21	36923	355	5	5	5	3	3	2	4	4	3.875	.1			
22	36924	356	6	2	2	2	4	9	7	15	5.875	.4			
23	36925	357	12	12	22	12	12	80	32	39	27.625	1.3			
24	36926	358	27	5	27	27	18	5	6	7	15.250	.9			
25	36927	359	7	15	7	12	6	6	9	5	8.375	.4			
26	36928	360	12	22	18	32	32	22	27	39	25.500	1.2			
27	36929	361	39	39	27	67	32	39	27	32	37.750	1.4			
28	36930	362	48	39	32	39	56	56	39	15	40.500	1.4			
29	36931	363	27	27	27	22	22	12	4	7	18.500	.9			
30	36932	364	6	15	15	22	22	15	12	4	13.375	.3			
31	36933	365	6	6	12	7	4	4	9	5	6.625	.4			

DECEMBER 1959

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. OF JULIAN DAY	DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1				
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY			
1	36903	335	1	225.0	199.3	179.1	176.0	170	127.2	120.9	120.6
2	36904	336	1	220.0	191.8	180.3	176.3	165	129.9	122.0	120.5
3	36905	337	1	205.0	193.6	181.3	176.5	160	132.2	123.3	120.7
4	36906	338	1	202.0	195.0	182.4	176.5	163	134.0	124.7	120.8
5	36907	339	1	207.0	196.3	183.3	176.8	142	134.4	125.8	120.6
6	36908	340	1	205.0	197.0	184.3	177.3	147	134.9	127.1	120.8
7	36909	341	1	194.0	196.9	185.0	177.6	141	134.8	127.8	121.5
8	36910	342	1	196.0	197.0	185.7	177.9	145	134.5	128.7	122.0
9	36911	343	1	175.0	196.3	185.8	177.9	94	132.3	128.3	121.7
10	36912	344	1	177.0	195.7	185.9	177.8	89	130.1	128.0	121.0
11	36913	345	1	173.0	195.1	185.9	177.7	82	128.0	127.4	120.2
12	36914	346	1	171.0	194.6	185.9	177.5	75	126.1	126.7	119.2
13	36915	347	1	164.0	194.1	185.7	177.3	73	124.6	126.0	118.3
14	36916	348	1	167.0	194.3	185.5	177.1	88	124.8	125.6	117.5
15	36917	349	1	174.0	194.9	185.2	177.1	123	126.7	125.5	117.4
16	36918	350	1	167.0	195.2	184.9	177.1	113	128.3	125.1	117.4
17	36919	351	1	170.0	195.7	184.7	177.2	107	129.9	124.4	117.5
18	36920	352	1	172.0	196.3	184.4	177.3	117	131.6	124.1	117.8
19	36921	353	1	163.0	196.6	184.3	177.6	134	132.5	124.2	118.4
20	36922	354	1	181.0	196.3	184.2	177.9	133	132.6	124.3	119.0
21	36923	355	1	180.0	195.6	184.4	178.4	131	131.8	124.3	119.8
22	36924	356	1	173.0	193.5	184.4	178.7	126	130.5	124.3	120.4
23	36925	357	1	160.0	191.4	184.4	179.0	122	129.0	124.1	120.8
24	36926	358	1	165.0	189.4	184.4	179.2	116	127.5	123.6	121.0
25	36927	359	1	164.0	186.9	184.5	179.4	121	126.4	123.4	121.1
26	36928	360	1	163.0	184.5	184.4	179.2	124	125.0	123.4	121.0
27	36929	361	1	169.0	182.1	184.4	179.2	132	123.4	124.1	121.0
28	36930	362	1	174.0	180.3	184.8	179.5	127	121.9	124.5	121.2
29	36931	363	1	173.0	178.5	185.2	179.7	136	120.8	125.4	121.6
30	36932	364	1	182.0	177.7	185.6	180.1	127	119.6	125.9	122.0
31	36933	365	1	169.0	176.4	185.7	180.4	153	119.2	126.6	122.9

MONTHLY AVERAGE 181.2  
MONTHLY SMOOTHED 183.4

125.0  
132.5

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH			MOD. DAY OF JULIAN		KP								SUM		AVG.	
DAY	MONTH	YEAR	1	2	3	4	5	6	7	8	KP	KP	KP	KP		
1	36934	1	1.333	1.667	1.333	1.333	.667	.333	.333	.333	7.333	.917	1.250			
2	36935	2	.667	1.333	1.000	1.333	2.000	1.333	1.667	.667	10.000	1.250	1.250			
3	36936	3	2.000	2.667	1.333	1.333	2.000	2.000	2.000	1.000	13.333	1.667	1.667			
4	36937	4	2.000	2.000	3.000	3.000	3.000	2.667	1.000	1.333	18.000	2.250	2.250			
5	36938	5	3.000	4.667	4.000	3.333	4.333	3.333	2.667	4.000	29.333	3.667	3.667			
6	36939	6	3.667	3.333	1.667	1.333	1.667	2.000	1.333	1.333	16.667	2.083	2.083			
7	36940	7	.667	1.667	2.333	2.667	2.000	1.667	1.333	1.000	13.333	1.667	1.667			
8	36941	8	2.000	2.000	.667	1.333	.667	1.333	1.667	1.667	11.333	1.417	1.417			
9	36942	9	1.333	2.000	1.333	1.000	.667	.333	.667	1.000	8.333	1.042	1.042			
10	36943	10	1.333	2.333	5.000	5.333	4.667	5.667	5.667	5.333	35.333	4.417	4.417			
11	36944	11	4.000	3.333	4.667	4.333	5.000	4.000	3.000	2.667	31.000	3.875	3.875			
12	36945	12	3.333	2.333	3.000	2.333	3.333	3.333	2.667	3.667	24.000	3.000	3.000			
13	36946	13	2.000	2.667	2.000	1.667	1.333	1.333	3.667	3.333	18.000	2.250	2.250			
14	36947	14	5.333	4.333	5.000	4.667	4.000	3.000	5.333	5.667	37.333	4.667	4.667			
15	36948	15	6.333	5.333	3.667	3.333	3.333	3.333	2.000	1.333	28.667	3.583	3.583			
16	36949	16	1.000	2.333	.333	.333	.667	1.333	1.000	3.667	10.667	1.333	1.333			
17	36950	17	3.000	3.333	2.333	1.667	4.000	3.333	1.667	2.333	21.667	2.708	2.708			
18	36951	18	2.000	2.333	5.667	4.667	4.333	2.333	2.667	2.667	26.667	3.333	3.333			
19	36952	19	3.333	2.000	1.000	2.000	2.333	2.000	1.667	1.667	16.000	2.000	2.000			
20	36953	20	1.667	3.333	3.000	4.333	3.333	4.000	2.667	2.333	24.667	3.083	3.083			
21	36954	21	6.000	4.333	4.000	5.000	5.000	5.000	5.667	5.000	40.000	5.000	5.000			
22	36955	22	4.000	3.333	3.667	5.000	3.000	3.000	2.000	2.667	26.667	3.333	3.333			
23	36956	23	2.333	3.333	3.667	2.667	3.667	3.333	3.667	3.333	26.000	3.250	3.250			
24	36957	24	3.333	3.667	3.000	3.667	3.667	3.333	2.667	2.667	26.000	3.250	3.250			
25	36958	25	2.333	2.667	2.000	2.000	2.333	3.000	2.667	1.333	18.333	2.292	2.292			
26	36959	26	1.667	2.333	2.000	2.333	1.667	2.000	1.000	2.000	15.000	1.875	1.875			
27	36960	27	3.000	3.333	1.667	2.667	2.000	1.333	.333	1.333	15.667	1.958	1.958			
28	36961	28	2.000	1.000	1.000	1.667	2.000	1.000	2.667	1.333	12.667	1.583	1.583			
29	36962	29	3.000	3.000	3.333	3.333	3.333	3.333	1.667	1.000	1.333	20.000	2.500			
30	36963	30	.333	.000	.333	1.333	.333	.333	.333	.333	3.000	.375	.375			
31	36964	31	.333	1.000	.667	1.333	1.000	1.000	.333	.333	6.000	.750	.750			

JANUARY 1960

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY YEAR	AP												MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	9	10	11	12	
1	36934	1	5	6	5	5	3	2	2	2	2	2	2	3.750
2	36935	2	3	5	4	5	7	5	6	3	3	3	3	4.750
3	36936	3	7	12	5	7	7	7	4	4	4	4	4	6.375
4	36937	4	7	7	15	15	15	12	4	4	5	5	5	10.000
5	36938	5	15	39	27	18	32	10	12	27	23	23	23	5.000
6	36939	6	22	13	6	5	6	6	7	5	9	9	9	3.75
7	36940	7	3	6	9	12	7	6	5	4	4	4	4	6.500
8	36941	8	7	7	3	5	3	5	6	6	5	5	5	5.250
9	36942	9	5	7	5	4	3	2	3	4	4	4	4	4.125
10	36943	10	5	9	48	56	39	67	67	56	43	43	43	3.75
11	36944	11	27	13	37	32	48	27	15	12	27	27	27	2.250
12	36945	12	18	9	15	9	18	18	12	22	15	15	15	1.25
13	36946	13	7	12	7	6	5	5	22	18	10	10	10	2.50
14	36947	14	56	32	48	39	27	15	56	67	42	42	42	5.00
15	36948	15	94	56	22	18	13	18	7	5	29	29	29	7.50
16	36949	16	4	9	2	2	3	5	4	22	6	6	6	3.75
17	36950	17	15	18	6	6	27	18	6	9	13	13	13	5.00
18	36951	18	7	9	67	39	32	9	12	12	23	23	23	3.75
19	36952	19	18	7	4	9	7	7	6	6	8	8	8	0.00
20	36953	20	6	18	15	32	18	27	12	9	17	17	17	1.25
21	36954	21	80	32	27	48	48	48	67	48	49	49	49	7.50
22	36955	22	27	18	22	48	15	15	7	12	20	20	20	5.00
23	36956	23	9	18	22	12	22	18	22	18	17	17	17	6.25
24	36957	24	18	22	15	22	22	10	12	12	17	17	17	6.25
25	36958	25	9	12	7	7	9	15	12	5	9	9	9	5.00
26	36959	26	6	9	7	9	6	7	4	7	6	6	6	8.75
27	36960	27	15	18	6	12	7	5	2	5	8	8	8	7.50
28	36961	28	7	4	4	6	7	4	12	5	6	6	6	1.25
29	36962	29	15	15	18	18	18	6	4	5	12	12	12	3.75
30	36963	30	2	0	2	5	2	2	2	0	1	1	1	8.75
31	36964	31	2	4	3	5	4	4	2	2	3	3	3	2.250



JANUARY 1960

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1- DAILY	2- DAILY	3- DAILY	4- DAILY	5- DAILY	6- DAILY	7- DAILY	8- DAILY	9- DAILY	10- DAILY	11- DAILY	12- DAILY	13- DAILY	14- DAILY	15- DAILY	16- DAILY	17- DAILY	18- DAILY	19- DAILY	20- DAILY	21- DAILY	22- DAILY	23- DAILY	24- DAILY	25- DAILY	26- DAILY	27- DAILY	28- DAILY	29- DAILY	30- DAILY	31- DAILY
1	36934	1	174.0	175.2	185.7	180.6	1	136	119.0	126.7	123.5																						
2	36935	2	175.0	174.2	185.6	180.9	1	141	118.7	126.8	124.3																						
3	36936	3	185.0	173.9	185.4	181.3	1	148	119.0	126.9	124.9																						
4	36937	4	196.0	173.9	185.4	181.7	1	160	119.6	127.0	125.7																						
5	36938	5	216.0	175.4	185.8	182.3	1	168	122.3	127.3	126.3																						
6	36939	6	218.0	176.9	186.3	182.9	1	174	125.4	127.8	127.1																						
7	36940	7	227.0	176.9	187.0	183.6	1	179	129.0	129.5	127.9																						
8	36941	8	222.0	180.0	187.7	184.2	1	171	132.6	129.4	128.7																						
9	36942	9	204.0	182.3	188.2	184.5	1	158	135.7	130.2	129.3																						
10	36943	10	197.0	183.4	188.8	184.6	1	139	137.6	131.2	129.6																						
11	36944	11	203.0	184.5	189.7	185.0	1	143	138.4	132.5	129.8																						
12	36945	12	186.0	185.2	190.2	185.0	1	123	138.7	133.5	129.6																						
13	36946	13	180.0	185.6	190.6	185.0	1	108	138.8	134.3	129.2																						
14	36947	14	178.0	185.8	191.0	184.9	1	118	138.8	135.2	129.0																						
15	36948	15	185.0	185.9	191.2	184.8	1	121	138.3	135.4	128.9																						
16	36949	16	185.0	186.0	191.1	184.8	1	119	137.8	135.2	128.8																						
17	36950	17	181.0	185.7	190.7	184.8	1	117	137.3	134.6	128.7																						
18	36951	18	178.0	185.9	189.7	184.9	1	103	136.4	133.5	128.3																						
19	36952	19	166.0	185.9	188.6	184.9	1	67	135.1	132.1	127.6																						
20	36953	20	159.0	185.6	187.5	184.0	1	94	134.3	130.9	127.2																						
21	36954	21	164.0	185.6	186.3	184.9	1	108	133.9	130.1	126.9																						
22	36955	22	174.0	186.0	185.3	184.9	1	134	134.2	129.6	127.0																						
23	36956	23	190.0	186.8	184.5	185.2	1	138	134.4	128.9	127.5																						
24	36957	24	212.0	188.2	184.2	185.9	1	136	134.8	128.3	127.9																						
25	36958	25	232.0	190.4	184.5	186.9	1	152	135.4	128.1	128.7																						
26	36959	26	244.0	192.7	185.2	188.0	1	209	138.4	129.0	130.1																						
27	36960	27	251.0	195.7	186.1	189.1	1	203	140.3	129.7	131.2																						
28	36961	28	255.0	198.7	187.0	190.1	1	199	142.6	130.8	132.0																						
29	36962	29	239.0	201.0	187.6	190.7	1	193	144.5	131.6	132.7																						
30	36963	30	232.0	202.7	188.3	191.2	1	178	145.6	132.3	133.1																						
31	36964	31	226.0	203.9	180.9	191.6	1	178	146.3	132.9	133.5																						

MONTHLY AVERAGE 201.2  
MONTHLY SMOOTHED 179.4

146.3  
128.9

FEBRUARY 1960

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36965	32	0.000	2.333	3.000	3.333	2.000	1.000	1.000	15.000	1.875
2	36966	33	1.000	2.000	2.667	3.333	3.667	4.333	3.667	21.333	2.667
3	36967	34	2.000	2.333	2.667	4.000	3.667	3.667	4.333	26.333	3.292
4	36968	35	3.667	4.333	3.333	3.333	2.667	3.333	3.333	26.333	3.292
5	36969	36	1.333	.667	2.667	5.000	4.333	3.667	3.333	23.667	2.958
6	36970	37	4.667	4.667	4.000	2.333	2.333	3.000	2.000	24.333	3.042
7	36971	38	2.000	2.667	2.000	1.667	1.000	.333	.333	10.000	1.250
8	36972	39	.333	1.000	2.667	3.333	3.667	2.667	1.000	16.333	2.042
9	36973	40	3.000	1.333	.333	.667	.667	2.000	1.000	10.667	1.333
10	36974	41	1.000	2.667	2.000	2.333	1.667	.667	.000	11.000	1.375
11	36975	42	.000	.000	1.000	2.333	1.333	3.000	3.333	13.667	1.708
12	36976	43	3.333	1.667	2.000	2.000	1.667	.667	.000	11.667	1.458
13	36977	44	.000	.333	2.000	2.333	1.667	.667	5.000	15.000	1.875
14	36978	45	5.333	4.333	3.667	3.667	3.667	4.667	3.000	32.000	4.000
15	36979	46	2.000	.333	1.000	.667	3.333	2.667	1.000	14.667	1.833
16	36980	47	3.333	2.333	2.333	3.667	5.667	3.000	3.667	29.333	3.667
17	36981	48	3.667	3.333	4.333	3.333	3.667	3.333	4.667	29.333	3.667
18	36982	49	5.333	4.667	4.667	3.333	3.000	4.000	2.667	31.000	3.875
19	36983	50	2.000	2.000	3.333	3.667	3.000	4.667	4.333	27.000	3.375
20	36984	51	5.000	4.000	3.000	2.667	3.000	1.667	2.667	25.000	3.125
21	36985	52	3.333	3.667	4.333	4.667	3.000	3.000	2.333	28.333	3.542
22	36986	53	1.000	1.333	3.000	2.667	2.333	3.000	2.667	18.000	2.250
23	36987	54	1.667	3.000	2.333	2.333	3.333	1.667	1.333	18.000	2.250
24	36988	55	1.000	2.333	1.333	.333	.667	.667	.333	7.000	.875
25	36989	56	1.000	.000	1.667	1.000	.667	1.000	1.667	7.667	.958
26	36990	57	.333	.000	1.000	2.333	1.667	1.667	1.333	11.333	1.417
27	36991	58	3.667	4.667	3.667	4.000	3.333	3.000	2.667	28.333	3.542
28	36992	59	2.000	2.000	2.333	2.333	1.667	.667	.667	13.000	1.625
29	36993	60	3.667	2.667	3.333	3.333	2.333	3.000	3.333	24.667	3.083

GEOMAGNETIC PLANETARY INDICES

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PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER											
			AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AP 9	AP 10	AP 11	AP 12
1	36965	32	0	9	9	15	18	7	4	4	8.250	.4		
2	36966	33	4	7	3	12	18	22	32	22	15.000	1.1		
3	36967	34	7	9	12	22	27	22	22	32	19.125	1.0		
4	36968	35	22	32	18	12	18	9	18	18	18.375	.9		
5	36969	36	5	3	12	48	32	22	12	18	19.000	1.1		
6	36970	37	39	39	27	9	9	15	5	7	18.750	.9		
7	36971	38	7	12	7	6	4	2	0	2	5.000	.2		
8	36972	39	2	4	12	18	22	12	6	4	10.000	.6		
9	36973	40	15	5	2	3	3	6	7	4	5.625	.2		
10	36974	41	4	12	7	9	6	3	3	0	5.500	.1		
11	36975	42	0	0	4	9	5	12	15	18	7.875	.4		
12	36976	43	18	6	7	7	6	3	2	0	6.125	.2		
13	36977	44	0	2	7	9	6	3	15	48	11.250	.8		
14	36978	45	56	32	22	22	22	22	39	15	28.750	1.2		
15	36979	46	7	2	4	3	18	22	12	4	9.000	.6		
16	36980	47	18	9	9	22	67	56	15	22	27.250	1.3		
17	36981	48	22	18	32	18	22	15	18	39	23.000	1.2		
18	36982	49	56	39	39	18	15	18	27	12	20.000	1.1		
19	36983	50	7	7	18	22	15	27	39	32	20.875	1.2		
20	36984	51	48	27	15	12	15	15	6	12	18.750	.9		
21	36985	52	18	22	32	39	15	27	15	9	22.125	1.1		
22	36986	53	4	5	15	12	9	7	15	12	9.875	.4		
23	36987	54	6	15	9	9	9	18	6	5	9.625	.4		
24	36988	55	4	9	5	2	3	2	3	2	3.750	.1		
25	36989	56	4	0	6	4	3	3	4	6	3.750	.1		
26	36990	57	2	0	4	9	6	15	6	5	5.875	.2		
27	36991	58	22	39	22	27	18	18	15	12	21.625	1.1		
28	36992	59	7	7	9	9	5	6	3	3	6.125	.2		
29	36993	60	22	12	18	18	15	9	15	18	15.875	.9		

FEBRUARY 1960

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)-----1---RELATIVE ZURICH SUNSPOT NUMBER--1									
			1-----RUNNING MEANS-----1-----RUNNING MEANS-----1									
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	81-DAY
1	36965	32	1	227.0	204.3	189.8	192.0	1	173	146.5	134.4	133.7
2	36966	33	1	215.0	204.1	190.5	192.2	1	181	146.7	136.1	134.1
3	36967	34	1	217.0	203.8	191.4	192.6	1	177	146.7	137.9	134.6
4	36968	35	1	211.0	203.4	192.1	192.9	1	156	146.1	139.4	134.9
5	36969	36	1	211.0	203.6	193.0	193.3	1	149	145.8	140.8	135.4
6	36970	37	1	194.0	203.5	193.5	193.7	1	145	146.0	141.8	136.1
7	36971	38	1	189.0	203.0	193.7	194.1	1	123	145.3	141.8	136.8
8	36972	39	1	184.0	202.9	194.1	194.4	1	116	145.0	141.9	137.3
9	36973	40	1	184.0	203.1	194.3	194.8	1	143	146.3	142.5	138.3
10	36974	41	1	179.0	203.1	194.4	195.1	1	143	147.2	143.0	139.2
11	36975	42	1	176.0	202.8	194.3	195.1	1	128	147.5	142.9	139.4
12	36976	43	1	167.0	202.1	194.1	194.8	1	116	147.4	142.6	139.2
13	36977	44	1	168.0	201.6	193.7	194.3	1	106	147.0	142.1	138.7
14	36978	45	1	165.0	201.3	193.6	193.6	1	104	147.0	141.7	139.0
15	36979	46	1	161.0	201.1	193.5	192.8	1	94	147.3	141.2	137.1
16	36980	47	1	159.0	201.1	193.4	192.0	1	84	146.9	140.6	136.2
17	36981	48	1	154.0	200.7	193.2	191.1	1	73	145.6	139.7	135.3
18	36982	49	1	152.0	199.9	193.0	190.1	1	60	142.9	138.5	134.0
19	36983	50	1	148.0	198.3	192.6	189.1	1	44	139.4	136.9	132.4
20	36984	51	1	143.0	195.8	192.0	186.1	1	49	136.1	135.5	130.9
21	36985	52	1	157.0	193.0	191.7	187.3	1	56	132.6	134.0	129.6
22	36986	53	1	150.0	189.5	191.1	186.6	1	64	127.2	132.0	128.4
23	36987	54	1	144.0	185.6	190.6	185.9	1	68	122.2	131.2	127.2
24	36988	55	1	141.0	181.3	190.0	185.1	1	74	117.6	130.1	126.4
25	36989	56	1	148.0	178.0	189.5	184.4	1	69	113.7	129.1	125.7
26	36990	57	1	148.0	174.9	188.8	183.8	1	96	110.7	128.2	125.1
27	36991	58	1	148.0	172.0	187.9	183.2	1	92	107.5	126.9	124.5
28	36992	59	1	141.0	169.8	186.5	182.8	1	87	104.3	125.4	124.4
29	36993	60	1	141.0	166.0	185.1	182.4	1	83	100.7	123.7	124.3

MONTHLY AVERAGE 169.8  
MONTHLY SMOOTHED 175.3

106.0  
125.0

MARCH 1960

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36994 61	2.667	3.333	3.333	3.333	3.333	3.333	3.000	4.667	3.000	26.667	3.333
2	36995 62	4.333	3.333	3.333	4.667	3.667	4.000	2.667	3.000	3.667	29.333	3.667
3	36996 63	3.000	4.000	4.000	4.000	4.000	3.667	3.667	3.000	3.000	28.333	3.542
4	36997 64	2.333	2.333	2.000	2.000	2.333	4.000	4.333	3.333	3.333	24.000	3.000
5	36998 65	2.333	2.667	3.667	3.667	1.667	3.333	3.000	3.000	3.000	22.667	2.833
6	36999 66	3.333	4.000	2.333	2.333	3.333	1.667	2.000	2.667	2.000	21.333	2.667
7	37000 67	.667	1.333	1.000	1.000	1.667	1.000	.667	1.000	.000	7.333	.917
8	37001 68	.667	2.667	3.667	3.667	3.333	3.000	2.667	2.000	2.667	20.667	2.583
9	37002 69	2.000	2.000	2.667	3.333	2.667	3.000	3.000	2.000	2.333	20.000	2.500
10	37003 70	1.667	2.333	4.667	5.000	5.000	2.667	4.000	3.667	2.333	26.333	3.292
11	37004 71	3.333	4.333	4.000	5.667	5.667	4.667	4.667	4.333	3.000	34.000	4.250
12	37005 72	2.333	2.000	2.333	2.333	2.333	2.667	2.333	1.000	1.667	16.667	2.083
13	37006 73	2.000	1.000	2.000	.667	.667	.667	2.000	1.667	1.667	11.667	1.458
14	37007 74	1.333	2.333	1.667	2.667	2.667	1.667	3.000	.667	1.333	14.667	1.833
15	37008 75	2.333	.000	1.333	1.333	1.333	3.000	4.000	4.667	5.667	22.333	2.792
16	37009 76	6.333	6.667	5.667	5.667	3.667	3.000	4.000	5.000	4.333	38.667	4.833
17	37010 77	3.333	3.667	4.333	4.333	4.000	2.667	3.333	4.000	2.667	29.000	3.500
18	37011 78	2.667	3.667	4.000	2.667	2.667	2.333	1.000	.333	2.667	19.333	2.417
19	37012 79	2.667	1.667	2.000	3.333	3.333	3.333	2.667	1.000	.667	17.333	2.167
20	37013 80	1.000	2.000	1.333	1.333	1.000	1.000	1.333	.000	.667	8.333	1.042
21	37014 81	.333	1.333	2.333	2.333	2.000	3.667	2.000	.333	.333	12.333	1.542
22	37015 82	.667	1.333	1.333	1.333	1.333	2.667	1.000	.667	1.667	10.667	1.333
23	37016 83	2.000	1.667	.667	.667	1.667	.667	.667	.333	2.000	9.667	1.208
24	37017 84	4.000	3.000	2.333	2.333	2.333	1.667	4.333	3.333	2.667	23.667	2.958
25	37018 85	.667	1.333	1.667	1.667	1.667	1.667	.667	2.000	3.000	12.667	1.583
26	37019 86	3.000	1.333	2.333	2.333	2.333	1.667	1.333	.667	.667	13.333	1.667
27	37020 87	1.333	3.000	2.000	2.000	2.667	1.333	.333	.333	.333	11.333	1.417
28	37021 88	.000	1.333	2.667	3.667	3.667	2.667	4.000	4.333	4.000	22.667	2.833
29	37022 89	4.333	4.000	4.333	3.333	3.333	1.000	1.667	1.667	3.000	23.333	2.917
30	37023 90	3.667	2.333	2.000	3.000	3.000	2.667	4.333	4.000	4.333	26.333	3.292
31	37024 91	4.333	4.667	5.000	7.667	7.667	6.667	8.000	7.667	8.333	52.333	6.542

# GEOMAGNETIC PLANETARY INDICES

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

191

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	SOLAR FLUX(10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER					
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY			
1	36974	61	137.0	163.1	183.4	191.9	63	96.5	121.6	124.1
2	36975	62	137.0	160.3	181.9	181.5	57	92.6	119.5	123.8
3	36996	63	138.0	157.6	180.6	181.2	62	89.6	117.7	123.7
4	36997	64	139.0	155.6	179.6	180.8	66	86.7	116.3	123.4
5	36998	65	140.0	153.8	178.4	180.4	74	84.9	115.1	122.8
6	36999	66	135.0	152.0	177.4	180.0	79	83.5	114.2	122.4
7	37000	67	139.0	150.3	176.7	179.6	108	82.2	114.2	122.4
8	37001	68	141.0	148.9	176.0	179.3	111	81.0	114.1	122.3
9	37002	69	143.0	147.7	175.2	178.8	109	80.3	113.9	122.0
10	37003	70	132.0	146.4	174.2	178.2	109	80.0	113.7	121.7
11	37004	71	132.0	145.0	173.3	177.5	82	79.1	113.1	121.1
12	37005	72	129.0	143.6	172.4	176.9	68	77.8	112.4	120.4
13	37006	73	135.0	142.6	171.9	176.5	85	77.5	112.4	120.4
14	37007	74	134.0	141.7	171.4	176.1	76	77.2	112.0	119.5
15	37008	75	137.0	141.1	170.9	175.8	84	77.6	111.6	119.0
16	37009	76	142.0	140.7	170.3	175.5	98	79.0	110.9	118.7
17	37010	77	140.0	140.4	169.4	175.2	86	80.6	110.0	118.1
18	37011	78	133.0	140.0	167.9	174.7	85	81.9	109.0	117.6
19	37012	79	137.0	139.3	166.1	174.2	95	83.3	108.0	117.1
20	37013	80	143.0	139.0	164.3	173.8	97	84.6	105.9	116.7
21	37014	81	145.0	139.1	162.3	173.5	115	86.3	104.3	116.3
22	37015	82	150.0	139.4	160.4	173.2	128	88.3	102.9	116.2
23	37016	83	154.0	139.6	158.8	172.9	145	90.4	102.1	116.2
24	37017	84	158.0	140.0	157.4	172.5	123	91.4	101.0	115.9
25	37018	85	157.0	140.3	156.1	172.0	128	92.7	100.1	115.5
26	37019	86	163.0	141.1	155.0	171.4	133	94.4	99.4	115.1
27	37020	87	169.0	142.2	154.1	170.8	138	96.6	99.6	114.6
28	37021	88	175.0	143.6	153.3	170.1	139	99.3	97.9	114.1
29	37022	89	181.0	145.2	152.8	169.6	142	102.4	97.6	113.8
30	37023	90	183.0	147.3	152.4	169.5	151	105.7	97.6	113.7
31	37024	91	192.0	148.9	152.2	169.3	132	108.1	97.4	113.6

MONTHLY AVERAGE	147.4
MONTHLY SMOOTHED	171.6

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

193



## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	MAGNETIC CHARACTER									
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
1	37025	92	300	300	132	207	236	300	300	154	241.125	2.0
2	37026	93	132	80	32	94	56	7	12	32	61.625	1.5
3	37027	94	111	151	132	67	22	10	32	12	68.500	1.5
4	37028	95	12	32	12	12	22	27	22	67	25.750	1.1
5	37029	96	32	67	32	6	39	80	15	5	34.500	1.2
6	37030	97	4	9	12	7	12	37	27	27	17.125	.9
7	37031	98	18	22	7	3	9	39	56	18	21.500	1.1
8	37032	99	27	22	18	18	12	18	7	7	16.125	.9
9	37033	100	18	32	22	22	5	5	5	5	14.250	.7
10	37034	101	12	27	22	18	22	15	39	111	33.250	1.2
11	37035	102	32	39	15	18	18	18	12	48	25.000	1.0
12	37036	103	67	67	56	22	15	15	12	27	35.125	1.2
13	37037	104	32	56	67	12	9	12	18	18	28.000	1.0
14	37038	105	22	18	15	18	9	7	7	18	14.250	.8
15	37039	106	22	30	27	18	12	15	15	6	24.375	1.0
16	37040	107	27	18	9	12	48	56	32	32	29.250	1.2
17	37041	108	67	39	22	27	9	18	27	27	29.500	1.1
18	37042	109	56	18	32	32	9	12	5	7	21.375	1.0
19	37043	110	7	9	6	2	5	4	0	0	4.125	.1
20	37044	111	0	2	4	3	4	2	0	2	2.125	.0
21	37045	112	0	2	0	4	4	5	4	5	3.000	.1
22	37046	113	9	4	5	6	3	7	3	4	5.125	.2
23	37047	114	6	12	7	7	5	6	7	67	14.625	.8
24	37048	115	111	111	48	22	48	18	80	94	66.500	1.6
25	37049	116	111	56	56	48	56	39	48	39	56.625	1.4
26	37050	117	32	18	22	12	12	12	9	27	18.000	1.0
27	37051	118	12	6	9	6	9	7	67	132	31.000	1.3
28	37052	119	132	111	132	80	67	56	80	18	84.500	1.7
29	37053	120	94	80	80	48	39	27	39	32	54.875	1.4
30	37054	121	111	111	67	67	304	400	207	132	74.375	2.0

APRIL 1960

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	1- 201.0	151.1	152.4	169.3	1	154	111.1	98.0	113.7
1	37025	92	1	201.0	151.1	152.4	169.3	1	154	111.1
2	37026	93	1	184.0	152.9	152.4	169.3	1	143	113.5
3	37027	94	1	179.0	154.4	152.4	169.3	1	152	115.1
4	37028	95	1	188.0	156.1	152.5	169.4	1	162	117.0
5	37029	96	1	182.0	157.6	152.6	169.3	1	156	118.7
6	37030	97	1	169.0	159.0	152.7	169.1	1	143	120.0
7	37031	98	1	165.0	160.2	152.6	169.0	1	123	121.5
8	37032	99	1	147.0	160.9	152.2	168.6	1	112	123.1
9	37033	100	1	148.0	161.3	152.0	168.3	1	98	123.6
10	37034	101	1	156.0	162.1	151.9	168.3	1	103	124.6
11	37035	102	1	154.0	163.0	152.0	168.2	1	114	125.7
12	37036	103	1	168.0	163.9	152.3	168.2	1	139	127.3
13	37037	104	1	179.0	165.4	152.9	168.0	1	132	129.0
14	37038	105	1	183.0	167.2	153.6	167.7	1	149	131.3
15	37039	106	1	190.0	169.2	154.2	167.2	1	156	133.6
16	37040	107	1	183.0	170.7	154.9	166.4	1	152	135.6
17	37041	108	1	178.0	171.9	155.5	165.5	1	124	136.0
18	37042	109	1	176.0	172.9	156.1	164.5	1	116	135.5
19	37043	110	1	170.0	173.4	156.5	163.7	1	121	134.6
20	37044	111	1	175.0	174.1	157.0	163.0	1	116	134.4
21	37045	112	1	163.0	174.3	157.3	162.2	1	123	134.2
22	37046	113	1	160.0	174.2	157.7	161.4	1	108	133.3
23	37047	114	1	166.0	174.1	158.1	160.8	1	106	132.1
24	37048	115	1	165.0	173.7	158.6	160.1	1	102	130.7
25	37049	116	1	147.0	172.4	158.8	159.3	1	95	129.0
26	37050	117	1	143.0	170.6	158.9	158.5	1	96	126.9
27	37051	118	1	140.0	169.0	158.9	157.8	1	82	125.1
28	37052	119	1	142.0	166.9	159.0	157.2	1	91	122.7
29	37053	120	1	153.0	165.7	159.3	156.9	1	92	120.9
30	37054	121	1	161.0	165.0	159.7	156.6	1	100	118.9

MONTHLY AVERAGE 167.3  
MONTHLY SMOOTHED 169.4

122.0  
119.6

## QUASI-LOGARITHM: C PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR		KP								SUM KP	AVG. KP
	1	2	3	4	5	6	7	8				
1	37055	122	6.667	6.333	5.667	4.333	4.000	3.333	3.000	4.000	37.333	4.667
2	37056	123	2.667	4.333	3.000	2.667	2.333	2.000	1.667	2.000	23.667	2.958
3	37057	124	1.667	2.000	2.667	3.000	2.333	2.000	1.667	.667	16.000	2.000
4	37058	125	1.000	.333	.667	1.333	1.000	1.000	2.333	2.667	10.333	1.292
5	37059	126	1.667	2.000	2.667	2.000	1.667	1.333	3.333	3.667	18.333	2.292
6	37060	127	3.333	3.667	3.667	5.000	4.000	5.333	7.000	7.333	39.333	4.917
7	37061	128	5.667	6.000	4.000	5.000	6.000	5.000	4.333	5.333	41.333	5.167
8	37062	129	3.333	6.333	6.667	7.333	8.000	8.333	6.333	6.667	53.000	6.625
9	37063	130	3.000	3.667	3.000	4.000	3.333	3.000	2.000	1.667	23.667	2.958
10	37064	131	2.333	2.000	2.333	2.333	2.667	2.333	3.000	3.667	20.667	2.583
11	37065	132	3.667	6.667	6.333	4.000	3.333	3.000	3.667	4.000	34.667	4.333
12	37066	133	2.000	3.667	4.333	4.000	4.333	3.667	1.667	2.333	26.000	3.250
13	37067	134	2.667	2.333	1.667	2.000	2.333	2.667	3.333	3.333	20.333	2.542
14	37068	135	3.000	3.000	4.000	3.333	2.000	2.667	1.333	1.667	21.000	2.625
15	37069	136	.000	2.333	2.667	3.667	3.333	2.000	1.667	.667	16.333	2.042
16	37070	137	1.333	1.667	2.000	2.000	5.333	6.333	6.333	5.667	30.667	3.833
17	37071	138	3.000	2.000	3.667	3.667	3.667	2.667	1.333	1.333	21.333	2.667
18	37072	139	1.667	2.000	2.000	1.000	1.000	1.667	1.333	1.333	12.000	1.500
19	37073	140	2.000	1.667	2.333	1.667	.667	.667	1.000	1.333	11.333	1.417
20	37074	141	.667	2.333	.333	.667	.667	1.000	.333	1.000	7.000	.875
21	37075	142	1.667	.667	1.333	1.667	2.667	1.333	1.333	.667	11.333	1.417
22	37076	143	.333	1.000	.333	.667	2.667	1.667	1.333	1.667	9.667	1.208
23	37077	144	1.000	1.000	1.333	2.000	5.667	4.667	5.333	4.000	25.000	3.125
24	37078	145	3.667	4.667	5.667	3.667	3.667	3.333	4.333	4.000	33.000	4.125
25	37079	146	4.000	3.333	2.667	2.667	3.333	3.667	3.667	3.333	26.667	3.333
26	37080	147	4.333	4.000	3.000	2.667	2.333	3.000	3.000	4.000	26.667	3.333
27	37081	148	5.000	4.333	2.000	1.333	2.000	1.667	2.667	2.667	21.667	2.708
28	37082	149	2.333	1.667	2.000	1.333	1.000	1.333	6.000	4.333	20.000	2.500
29	37083	150	7.667	4.333	4.333	3.333	5.000	4.667	5.333	4.333	38.667	4.833
30	37084	151	2.667	2.333	3.667	4.000	4.333	4.000	1.667	2.000	24.667	3.083
31	37085	152	2.000	2.333	2.333	2.333	3.000	3.000	3.000	3.667	21.667	2.708



MAY 1960

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)	1-----RELATIVE ZURICH SUNSPOT NUMBER	1-----RUNNING MEANS	1-----RELATIVE ZURICH SUNSPOT NUMBER	1-----RUNNING MEANS				
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY			
1	37055 122	152.0	163.7	159.9	156.2	1	97	116.5	116.8	104.8
2	37056 123	160.0	162.9	160.2	156.0	1	97	114.3	116.5	104.5
3	37057 124	156.0	162.5	160.7	155.9	1	102	112.8	116.4	104.3
4	37058 125	156.0	162.1	161.2	155.8	1	96	111.8	116.7	104.2
5	37059 126	152.0	162.3	161.6	155.6	1	87	110.9	117.0	104.0
6	37060 127	156.0	162.6	162.0	155.5	1	93	110.7	117.2	103.9
7	37061 128	162.0	162.9	162.5	155.6	1	125	111.5	118.1	104.4
8	37062 129	168.0	163.2	163.1	155.7	1	135	112.3	119.0	105.2
9	37063 130	170.0	163.3	163.6	156.0	1	142	112.4	119.6	106.2
10	37064 131	170.0	162.9	164.1	156.2	1	149	113.0	121.0	107.5
11	37065 132	180.0	162.8	165.0	156.7	1	147	113.0	122.1	108.7
12	37066 133	179.0	162.4	165.8	157.0	1	127	111.9	122.7	109.6
13	37067 134	170.0	161.9	166.3	157.2	1	135	111.3	123.4	110.5
14	37068 135	162.0	161.3	166.6	157.4	1	110	110.7	123.4	111.0
15	37069 136	162.0	160.8	166.8	157.7	1	91	109.8	122.7	111.2
16	37070 137	155.0	160.3	166.9	157.8	1	101	109.1	121.9	111.4
17	37071 138	151.0	159.4	166.7	157.8	1	114	109.0	121.7	111.6
18	37072 139	153.0	159.0	166.6	157.9	1	106	108.4	121.3	111.8
19	37073 140	153.0	158.7	166.5	158.0	1	106	108.4	120.8	112.0
20	37074 141	160.0	158.5	166.3	158.3	1	115	108.7	120.4	112.4
21	37075 142	164.0	158.5	166.1	158.6	1	109	109.0	119.8	113.0
22	37076 143	164.0	159.1	165.8	158.9	1	118	109.8	119.4	113.7
23	37077 144	163.0	159.9	165.2	159.2	1	125	110.9	118.9	114.5
24	37078 145	164.0	160.7	164.9	159.5	1	147	113.3	119.2	115.5
25	37079 146	163.0	161.5	164.2	159.8	1	148	115.4	119.1	116.4
26	37080 147	158.0	161.7	163.7	160.1	1	124	116.6	118.7	117.0
27	37081 148	166.0	161.9	163.5	160.4	1	148	118.4	118.6	117.5
28	37082 149	171.0	162.6	163.1	160.8	1	142	120.0	118.3	117.9
29	37083 150	170.2	163.0	162.9	161.1	1	138	121.6	117.9	118.2
30	37084 151	170.0	163.4	162.9	161.6	1	121	122.3	117.5	116.4
31	37085 152	159.0	163.5	162.8	162.0	1	111	122.8	117.3	116.7

MONTHLY AVERAGE 162.6  
MONTHLY SMOOTHED 166.8119.6  
117.0

# GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

199

JUNE 1960

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	APG	AP		
1	37086	153	22	80	32	39	27	7	9	5	27.625	1.2			
2	37087	154	7	3	4	5	7	5	6	4	5.125	.2			
3	37088	155	2	2	4	5	5	12	12	22	8.000	.6			
4	37089	156	39	94	94	39	39	27	27	56	51.875	1.5			
5	37090	157	48	56	39	48	27	18	22	18	34.500	1.3			
6	37091	158	39	32	22	48	27	15	7	9	24.875	1.2			
7	37092	159	18	15	15	22	15	6	18	9	14.750	.8			
8	37093	160	15	32	27	22	15	15	27	39	24.000	1.1			
9	37094	161	27	32	22	12	18	12	27	4	19.250	1.0			
10	37095	162	5	4	4	5	5	7	9	9	6.000	.2			
11	37096	163	12	5	6	4	3	3	4	3	5.000	.2			
12	37097	164	4	4	4	6	4	7	7	3	5.125	.2			
13	37098	165	6	6	5	5	5	15	5	5	6.500	.2			
14	37099	166	7	6	12	22	39	12	7	5	13.750	.8			
15	37100	167	12	3	18	15	15	9	9	7	11.000	.4			
16	37101	168	9	9	9	3	3	5	3	4	5.625	.1			
17	37102	169	12	4	2	2	7	18	9	5	7.375	.2			
18	37103	170	12	9	9	22	18	15	15	9	13.625	.8			
19	37104	171	15	18	22	22	15	12	15	12	16.375	.8			
20	37105	172	15	12	9	5	9	9	3	6	8.500	.4			
21	37106	173	12	32	15	15	12	15	15	15	16.375	.8			
22	37107	174	12	27	7	12	7	6	12	18	12.625	.7			
23	37108	175	22	15	7	6	9	15	6	9	11.125	.7			
24	37109	176	7	9	12	12	12	9	27	15	12.875	.9			
25	37110	177	22	7	9	27	18	39	39	56	27.125	1.2			
26	37111	178	39	39	32	9	9	15	12	18	21.625	1.2			
27	37112	179	111	111	67	32	7	56	80	56	65.000	1.6			
28	37113	180	27	27	39	80	32	27	32	27	36.375	1.3			
29	37114	181	22	32	39	9	7	15	56	111	36.375	1.4			
30	37115	182	132	94	18	18	12	56	80	27	54.625	1.6			

JUNE 1969

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	I-----SOLAR FLUX(10.7CM OTTAWA)-----I				I-----RELATIVE ZURICH SUNSPOT NUMBER-----I				
		DAILY 27-DAY	54-DAY	91-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	37086 153	166.0	164.0	163.2	162.4	1	100	123.3	117.1	119.1
2	37087 154	167.0	164.4	163.5	162.8	1	90	123.2	116.7	119.2
3	37088 155	167.0	164.6	163.7	163.2	1	109	122.6	117.1	119.6
4	37089 156	172.0	164.8	164.0	163.6	1	113	121.3	117.0	119.9
5	37090 157	170.0	164.8	164.0	164.0	1	104	120.4	116.4	120.0
6	37091 158	173.0	165.0	163.9	164.4	1	109	118.9	116.0	120.3
7	37092 159	185.0	165.1	164.0	165.1	1	123	118.0	115.5	120.8
8	37093 160	185.0	165.4	163.9	165.7	1	113	117.5	114.7	121.0
9	37094 161	181.0	165.8	163.9	166.1	1	129	117.3	114.3	121.4
10	37095 162	178.0	166.4	163.9	166.5	1	147	118.6	114.7	121.8
11	37096 163	171.0	166.7	163.8	166.8	1	149	120.8	115.3	122.0
12	37097 164	167.0	167.1	163.7	167.0	1	151	122.6	115.9	122.1
13	37098 165	162.0	167.6	163.5	167.0	1	131	123.3	116.1	122.2
14	37099 166	166.0	168.0	163.5	167.1	1	138	124.4	116.4	122.3
15	37100 167	166.0	168.5	163.6	167.1	1	144	125.8	117.1	122.5
16	37101 168	157.0	168.4	163.5	167.0	1	138	126.6	117.7	122.5
17	37102 169	153.0	168.0	163.2	166.7	1	105	126.5	117.7	122.0
18	37103 170	139.0	167.1	163.1	166.2	1	91	125.5	117.6	121.4
19	37104 171	140.0	166.2	163.0	165.6	1	84	124.0	117.4	120.6
20	37105 172	133.0	165.1	162.7	165.0	1	60	120.7	117.0	119.7
21	37106 173	131.0	163.9	162.7	164.1	1	56	117.3	116.4	119.5
22	37107 174	130.0	162.9	162.3	163.4	1	50	114.6	115.6	117.3
23	37108 175	136.0	161.7	161.8	162.9	1	58	111.3	114.8	116.2
24	37109 176	132.0	160.3	161.4	162.2	1	68	108.5	114.3	115.0
25	37110 177	140.0	159.2	161.1	161.7	1	80	106.4	114.0	114.1
26	37111 178	155.0	158.6	161.0	161.5	1	97	105.6	113.9	113.5
27	37112 179	164.0	158.8	161.2	161.5	1	116	105.7	114.3	113.5
28	37113 180	184.0	159.5	161.8	162.0	1	140	107.2	115.3	113.8
29	37114 181	190.0	160.3	162.4	162.5	1	147	109.3	116.3	114.4
30	37115 182	174.0	161.3	163.0	162.9	1	165	111.4	117.0	115.2

MONTHLY AVERAGE 161.9  
MONTHLY SMOOTHED 163.5

110.2  
113.9



GEOMAGNETIC PLANETARY INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP
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# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

JULY 1960

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1			
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	37116 183	1 208.0	162.7	163.7	163.5	1 167	113.4	117.6	115.9
2	37117 184	1 207.0	164.0	164.4	164.0	1 157	115.4	117.4	116.0
3	37118 185	1 210.0	165.3	165.1	164.4	1 163	117.4	118.1	116.4
4	37119 186	1 212.0	166.3	165.7	164.8	1 203	120.3	119.2	117.1
5	37120 187	1 209.0	167.2	166.3	165.0	1 166	122.4	119.9	117.2
6	37121 188	1 200.0	167.9	166.9	165.2	1 139	122.7	120.0	117.1
7	37122 189	1 187.0	168.3	167.3	165.3	1 133	122.2	120.4	117.2
8	37123 190	1 176.0	168.4	167.6	165.3	1 134	121.7	121.2	117.4
9	37124 191	1 176.0	168.8	168.0	165.4	1 123	120.6	121.6	117.4
10	37125 192	1 166.0	168.9	168.2	165.3	1 108	119.8	121.5	117.3
11	37126 193	1 153.0	168.4	168.2	165.2	1 95	118.2	121.3	117.0
12	37127 194	1 142.0	167.6	168.0	164.9	1 83	115.9	120.9	116.7
13	37128 195	1 135.0	166.7	167.6	164.6	1 84	113.9	120.3	116.4
14	37129 196	1 139.0	166.2	167.1	164.2	1 89	113.3	119.9	116.3
15	37130 197	1 146.0	166.5	166.8	164.2	1 105	113.9	119.7	116.4
16	37131 198	1 144.0	166.6	166.4	164.2	1 132	115.6	119.8	116.8
17	37132 199	1 153.0	167.4	166.2	164.4	1 136	118.4	119.6	117.5
18	37133 200	1 159.0	168.4	166.1	164.6	1 140	121.6	119.4	118.1
19	37134 201	1 156.0	169.4	166.1	164.6	1 141	124.9	119.6	118.7
20	37135 202	1 152.0	170.0	165.9	164.5	1 137	127.9	119.6	119.2
21	37136 203	1 153.0	170.7	165.5	164.5	1 139	130.5	119.5	119.7
22	37137 204	1 148.0	171.0	165.1	164.4	1 135	132.5	119.4	120.1
23	37138 205	1 151.0	170.9	164.8	164.3	1 127	133.6	119.6	120.5
24	37139 206	1 159.0	170.7	164.8	164.3	1 105	133.1	119.4	120.6
25	37140 207	1 148.0	169.4	164.4	164.3	1 110	132.0	119.6	120.9
26	37141 208	1 149.0	167.9	164.1	164.2	1 92	130.0	119.7	120.8
27	37142 209	1 150.0	166.2	163.8	164.1	1 90	127.2	119.3	120.4
28	37143 210	1 149.0	164.0	163.4	163.8	1 80	124.0	118.7	119.7
29	37144 211	1 154.0	162.1	163.1	163.6	1 94	121.7	118.5	119.1
30	37145 212	1 146.0	159.7	162.5	163.3	1 82	118.7	118.0	118.3
31	37146 213	1 145.0	157.2	161.8	162.9	1 83	114.2	117.3	117.5

MONTHLY AVERAGE 163.9  
MONTHLY SMOOTHED 158.4

121.7  
108.6

AUGUST 1960

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37147 214	2.667	3.000	3.000	3.000	4.000	1.667	1.667	2.667	21.667	2.708
2	37148 215	2.667	4.333	3.000	2.667	2.333	3.000	3.333	4.000	25.333	3.167
3	37149 216	2.667	1.333	1.667	2.000	2.000	2.000	1.333	1.667	14.667	1.833
4	37150 217	2.333	2.333	2.000	3.000	1.333	.667	1.000	.667	13.333	1.667
5	37151 218	.667	1.000	1.000	.667	1.000	.667	.667	.333	6.000	.750
6	37152 219	.667	.667	2.333	2.333	1.333	2.000	2.333	2.333	14.000	1.750
7	37153 220	3.000	2.000	1.667	1.667	1.667	2.667	1.333	.000	14.000	1.750
8	37154 221	.667	1.667	3.667	2.667	3.333	3.667	3.333	4.000	23.000	2.875
9	37155 222	3.667	5.000	4.667	4.000	2.667	2.333	2.333	2.000	26.667	3.333
10	37156 223	2.667	2.000	3.667	3.000	3.000	3.333	2.667	2.000	22.333	2.792
11	37157 224	2.333	5.000	3.333	4.333	4.000	3.667	3.667	2.333	28.667	3.583
12	37158 225	3.333	4.333	5.000	4.667	3.667	3.000	2.000	2.333	28.333	3.542
13	37159 226	1.667	2.333	1.667	2.333	2.667	1.667	2.000	1.667	16.000	2.000
14	37160 227	2.000	2.333	1.667	1.667	2.000	4.333	4.000	3.333	21.333	2.667
15	37161 228	3.333	2.667	2.333	2.000	1.333	1.667	1.333	1.000	15.667	1.958
16	37162 229	1.667	.667	.667	1.667	6.333	7.000	6.333	6.000	30.333	3.792
17	37163 230	7.667	7.667	7.000	5.333	4.333	6.667	6.333	5.667	50.667	6.333
18	37164 231	3.667	3.000	3.667	4.667	2.667	1.667	1.667	1.333	22.333	2.792
19	37165 232	2.000	1.000	2.000	3.333	2.667	4.333	4.333	5.333	25.000	3.125
20	37166 233	2.333	4.667	6.000	3.000	3.000	2.667	3.333	3.333	29.333	3.542
21	37167 234	4.000	4.000	4.667	5.000	3.000	3.667	4.000	3.667	32.000	4.000
22	37168 235	4.667	2.667	1.667	2.333	1.667	2.333	3.333	2.333	21.000	2.625
23	37169 236	2.333	2.333	2.000	1.667	1.000	2.333	2.333	1.000	15.000	1.875
24	37170 237	1.667	1.000	2.000	3.000	.667	1.333	1.333	.667	11.667	1.458
25	37171 238	.667	.333	.667	.333	1.000	1.333	1.333	.667	6.333	.792
26	37172 239	.000	.333	1.000	1.000	.667	1.000	1.333	2.000	7.333	.917
27	37173 240	3.333	2.667	2.000	2.333	2.000	3.667	4.667	3.333	24.000	3.000
28	37174 241	2.667	4.333	4.000	1.000	2.667	3.000	.667	1.000	19.333	2.417
29	37175 242	5.000	6.667	5.000	3.333	4.333	4.333	3.667	5.000	37.333	4.667
30	37176 243	5.667	7.000	7.000	5.000	4.000	4.333	3.000	2.000	30.000	4.750
31	37177 244	3.333	4.000	4.333	3.000	2.667	1.667	1.667	2.667	23.333	2.917

AUGUST 1960

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP								MAGNETIC CHARACTER	
			1	2	3	4	5	6	7	8		
1	37147	214	12	15	15	15	27	6	6	12	13.500	.7
2	37148	215	12	32	15	12	9	15	18	27	17.500	.9
3	37149	216	12	5	6	7	7	7	5	6	6.875	.4
4	37150	217	9	9	7	15	5	3	4	3	6.875	.4
5	37151	218	3	4	4	3	4	3	3	2	3.250	.1
6	37152	219	3	3	9	9	5	7	9	9	6.750	.4
7	37153	220	15	7	6	6	6	12	5	0	7.125	.5
8	37154	221	3	6	22	12	10	22	18	27	16.000	1.0
9	37155	222	22	48	39	27	12	9	9	7	21.625	1.1
10	37156	223	12	7	22	15	15	18	12	7	13.500	.8
11	37157	224	9	48	18	32	27	22	22	9	23.375	1.2
12	37158	225	18	32	48	39	22	15	7	9	23.750	1.1
13	37159	226	6	9	6	9	12	6	7	6	7.625	.5
14	37160	227	7	9	6	6	7	32	27	18	14.000	1.0
15	37161	228	18	12	9	7	5	6	5	4	8.250	.5
16	37162	229	6	3	3	6	94	132	94	80	52.250	1.4
17	37163	230	179	179	132	56	32	111	94	67	106.250	1.8
18	37164	231	22	15	22	39	12	6	6	5	15.075	1.0
19	37165	232	7	4	7	18	12	32	32	56	21.000	1.2
20	37166	233	9	39	80	15	15	12	18	18	25.750	1.3
21	37167	234	27	27	39	48	15	22	27	22	28.375	1.2
22	37168	235	39	12	6	9	6	7	18	9	13.500	.8
23	37169	236	9	9	7	6	4	9	9	4	7.125	.4
24	37170	237	6	4	7	15	3	5	5	3	6.000	.2
25	37171	238	3	2	3	2	4	5	5	3	3.375	.1
26	37172	239	0	2	4	4	3	4	5	7	3.625	.1
27	37173	240	18	12	7	9	7	22	39	18	16.500	1.1
28	37174	241	12	32	27	4	12	15	3	4	13.625	.8
29	37175	242	48	111	48	18	32	32	22	48	44.875	1.5
30	37176	243	67	132	132	48	27	32	15	7	57.500	1.7
31	37177	244	18	27	32	15	12	6	6	12	16.000	.8

AUGUST 1960

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. DAY JULIAN OF YEAR	1--SOLAR FLUX(10.7CM OTTAWA)	1--RELATIVE ZURICH SUNSPOT NUMBER	1--RUNNING MEANS	1--RUNNING MEANS	1--RUNNING MEANS	1--RUNNING MEANS	1--RUNNING MEANS	1--RUNNING MEANS
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY
1	37147 214	140.0	154.7	160.9	162.4	1	75	110.8	116.6
2	37148 215	134.0	152.2	160.1	162.0	1	58	107.3	115.9
3	37149 216	125.0	149.9	159.1	161.5	1	36	104.2	113.0
4	37150 217	122.0	147.9	158.2	161.0	1	30	100.3	111.0
5	37151 218	126.0	146.1	157.4	160.7	1	25	96.7	108.7
6	37152 219	127.0	144.6	156.8	160.4	1	24	93.6	106.7
7	37153 220	134.0	143.9	156.2	160.1	1	56	92.1	105.2
8	37154 221	145.0	144.0	155.8	160.0	1	58	91.2	103.6
9	37155 222	152.0	144.7	155.7	159.9	1	76	90.9	102.4
10	37156 223	170.0	145.8	156.0	160.0	1	94	91.1	102.2
11	37157 224	187.0	147.3	156.9	160.3	1	156	93.0	103.4
12	37158 225	214.0	149.9	158.3	160.9	1	201	95.6	105.6
13	37159 226	234.0	152.9	160.1	161.8	1	235	99.2	108.8
14	37160 227	236.0	155.9	162.1	162.7	1	236	102.8	112.2
15	37161 228	240.0	159.0	164.2	163.7	1	252	106.9	115.9
16	37162 229	241.0	162.3	166.1	164.7	1	244	110.9	119.4
17	37163 230	247.0	165.7	168.2	165.6	1	253	115.1	122.8
18	37164 231	250.0	169.5	170.3	166.6	1	257	119.6	126.1
19	37165 232	234.0	172.6	171.7	167.4	1	228	123.3	128.4
20	37166 233	219.0	174.8	172.8	168.1	1	204	127.0	130.1
21	37167 234	201.0	176.8	173.1	168.5	1	177	129.5	130.8
22	37168 235	189.0	178.3	173.1	168.8	1	168	132.3	131.1
23	37169 236	171.0	179.0	172.6	168.9	1	130	133.8	130.5
24	37170 237	162.0	179.5	171.8	168.7	1	113	135.0	129.5
25	37171 238	156.0	179.7	170.9	168.6	1	131	136.4	129.0
26	37172 239	162.0	180.3	170.0	168.4	1	140	138.5	128.6
27	37173 240	150.0	180.4	168.8	168.0	1	109	139.5	126.9
28	37174 241	140.0	180.4	167.6	167.4	1	98	140.3	125.6
29	37175 242	129.0	180.3	166.2	166.8	1	97	141.6	124.5
30	37176 243	129.0	180.4	165.2	165.2	1	96	144.0	124.1
31	37177 244	132.0	180.8	164.4	165.7	1	100	146.6	123.5

MONTHLY AVERAGE 174.3  
MONTHLY SMOOTHED 152.4

134.1  
102.4

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF		KP												SUM KP	AVG. KP
	DAY	YEAR	1	2	3	4	5	6	7	8	9	10	11	12		
1	37178	245	.333	.333	.667	.667	1.000	.667	.333	1.000	.667	.333	1.000	5.000	.625	
2	37179	246	.667	2.000	2.000	3.333	3.333	3.000	4.333	5.667	23.000	23.000	2.875	3.833		
3	37180	247	5.000	5.333	6.667	3.000	3.333	2.667	2.667	2.000	30.667	30.667	3.833	6.042		
4	37181	248	3.667	4.667	6.667	6.000	6.667	6.000	6.667	8.000	46.333	46.333	6.542	3.583		
5	37182	249	7.333	7.667	7.667	7.667	5.000	5.667	6.000	5.333	52.333	52.333	6.542	3.792		
6	37183	250	5.333	5.000	4.667	2.333	1.667	1.667	3.000	5.000	28.667	28.667	3.583	3.167		
7	37184	251	3.333	3.000	3.000	3.667	5.667	3.333	4.333	4.000	30.333	30.333	3.792	3.000		
8	37185	252	3.667	3.333	4.667	3.333	3.000	3.667	2.667	1.000	25.333	25.333	3.167	3.000		
9	37186	253	4.000	4.000	3.333	2.667	2.667	1.667	2.667	3.000	24.000	24.000	3.000	2.792		
10	37187	254	2.333	2.333	2.333	3.333	2.333	3.667	3.000	3.000	22.333	22.333	2.792	2.792		
11	37188	255	4.333	3.333	2.667	1.000	2.000	2.667	3.000	3.333	22.333	22.333	2.792	2.375		
12	37189	256	3.333	2.667	3.333	2.667	1.667	2.667	1.333	1.333	19.000	19.000	2.375	3.292		
13	37190	257	3.667	5.000	4.333	3.667	2.333	1.000	2.667	3.667	26.333	26.333	3.292	2.125		
14	37191	258	5.000	4.000	2.333	2.333	1.333	1.333	.333	.333	17.000	17.000	2.125	1.083		
15	37192	259	.333	2.000	1.333	1.333	1.000	1.000	1.000	.667	8.667	8.667	1.083	.875		
16	37193	260	1.333	.333	.333	1.000	1.333	1.000	1.000	.667	7.000	7.000	.875	1.792		
17	37194	261	1.000	2.000	.333	.667	1.667	2.000	3.333	3.333	14.333	14.333	1.792	2.667		
18	37195	262	4.667	4.333	2.333	3.667	2.333	1.333	1.333	1.333	21.333	21.333	2.667	1.042		
19	37196	263	1.333	1.000	1.667	1.000	1.333	1.000	.667	.333	8.333	8.333	1.042	1.167		
20	37197	264	.667	.333	1.333	1.333	.667	1.000	1.333	2.667	9.333	9.333	1.167	1.958		
21	37198	265	2.333	.667	1.000	2.333	2.333	2.000	2.333	2.667	15.667	15.667	1.958	2.250		
22	37199	266	2.667	2.333	1.667	.667	2.333	2.333	3.333	2.667	18.000	18.000	2.250	2.667		
23	37200	267	3.333	3.000	4.000	3.667	1.333	1.333	1.333	3.333	21.333	21.333	2.667	3.667		
24	37201	268	5.000	4.667	4.667	4.667	2.333	3.667	3.000	1.333	29.333	29.333	3.667	1.167		
25	37202	269	1.000	1.000	.667	1.000	.333	.333	2.667	1.333	9.333	9.333	1.167	2.083		
26	37203	270	2.667	1.333	2.667	1.667	.667	1.333	2.667	3.667	16.667	16.667	2.083	2.708		
27	37204	271	4.667	4.333	4.000	2.667	1.333	1.000	2.333	1.333	21.667	21.667	2.708	1.583		
28	37205	272	1.000	1.667	1.667	3.333	1.667	1.667	1.000	1.000	12.667	12.667	1.583	2.500		
29	37206	273	1.000	.333	2.667	2.000	4.667	3.000	2.333	4.000	20.000	20.000	2.500	4.042		
30	37207	274	4.667	4.000	3.667	3.000	1.333	1.667	4.333	4.667	32.333	32.333	4.042			

SEPTEMBER 1960

GEOMAGNETIC PLANETARY INDICES  
PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37178	245	2	2	3	3	4	3	2	4					0
2	37179	246	3	7	7	7	18	15	32	67					1.2
3	37180	247	48	56	111	15	18	12	12	7					1.3
4	37181	248	22	39	111	80	111	80	111	207					1.8
5	37182	249	154	179	179	179	48	67	80	56					1.9
6	37183	250	56	48	39	9	6	6	15	48					1.3
7	37184	251	18	15	15	22	67	18	32	27					1.2
8	37185	252	22	18	39	18	15	22	12	4					1.0
9	37186	253	27	27	18	12	12	6	12	15					0.7
10	37187	254	9	9	9	18	9	22	15	15					0.8
11	37188	255	32	18	12	4	7	12	15	18					0.8
12	37189	256	18	12	18	12	6	12	5	5					0.4
13	37190	257	22	48	32	22	9	4	12	22					1.0
14	37191	258	48	27	9	9	5	5	2	2					0.7
15	37192	259	2	7	5	5	4	4	4	3					0.1
16	37193	260	5	2	2	4	5	4	4	3					0.1
17	37194	261	4	7	2	3	6	7	18	18					0.4
18	37195	262	39	32	9	22	9	5	5	5					0.7
19	37196	263	5	4	6	4	5	4	3	2					0.0
20	37197	264	3	2	5	5	3	4	5	12					0.2
21	37198	265	9	3	4	9	9	7	9	12					0.5
22	37199	266	12	9	6	3	9	9	18	12					0.6
23	37200	267	18	15	27	22	5	5	5	18					0.7
24	37201	268	48	39	39	39	9	22	15	5					1.2
25	37202	269	4	4	3	4	2	5	12	5					0.2
26	37203	270	12	5	12	6	3	5	12	22					0.7
27	37204	271	39	32	27	12	5	4	9	5					0.0
28	37205	272	4	6	6	18	5	6	4	4					0.3
29	37206	273	4	2	12	7	39	15	9	27					0.9
30	37207	274	39	27	22	15	32	22	32	39					1.3



SEPTEMBER 1960

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1
		DAILY 27-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	37178 245	1 137.0	161.2	163.6	165.3	1 103 149.5 123.1 122.3
2	37179 246	1 152.0	182.1	163.4	165.2	1 105 152.5 123.0 122.0
3	37180 247	1 149.0	182.7	163.3	165.0	1 80 153.4 122.8 121.2
4	37181 248	1 142.0	182.6	163.3	164.7	1 75 154.0 122.6 120.4
5	37182 249	1 142.0	182.2	163.4	164.5	1 83 154.3 122.6 119.7
6	37183 250	1 149.0	181.4	163.6	164.5	1 100 154.5 122.8 119.6
7	37184 251	1 162.0	180.5	163.9	164.8	1 110 152.8 122.9 119.9
8	37185 252	1 170.0	178.9	164.4	165.1	1 121 149.8 122.7 120.3
9	37186 253	1 173.0	176.6	164.8	165.6	1 138 146.2 122.7 121.3
10	37187 254	1 175.0	174.3	165.1	166.2	1 147 142.9 122.9 122.4
11	37188 255	1 175.0	171.9	165.4	166.7	1 145 139.0 122.9 123.6
12	37189 256	1 177.0	169.5	165.9	167.2	1 147 135.4 123.1 124.7
13	37190 257	1 181.0	167.0	166.4	167.8	1 160 131.9 123.5 125.8
14	37191 258	1 181.0	164.5	167.0	168.3	1 161 128.4 124.0 126.8
15	37192 259	1 178.0	162.4	167.5	168.6	1 151 125.5 124.4 127.5
16	37193 260	1 177.0	160.9	167.8	168.8	1 128 122.7 124.9 127.6
17	37194 261	1 185.0	160.3	168.5	168.8	1 122 120.7 125.1 127.4
18	37195 262	1 190.0	160.3	169.3	168.8	1 153 120.1 126.2 127.5
19	37196 263	1 199.0	161.3	170.2	168.9	1 166 121.4 127.6 127.5
20	37197 264	1 195.0	162.6	171.0	168.7	1 171 123.6 129.3 127.5
21	37198 265	1 184.0	163.7	171.7	168.5	1 177 125.3 130.8 127.8
22	37199 266	1 184.0	164.5	172.4	168.2	1 189 127.1 132.8 128.1
23	37200 267	1 175.0	165.4	172.9	167.7	1 168 129.3 134.4 127.7
24	37201 268	1 162.0	166.3	173.4	167.1	1 157 131.5 135.9 127.5
25	37202 269	1 155.0	167.2	173.7	166.6	1 141 133.1 137.4 127.6
26	37203 270	1 148.0	167.9	174.2	166.1	1 114 133.8 138.9 127.3
27	37204 271	1 142.0	168.3	174.5	165.7	1 97 133.7 140.1 126.9
28	37205 272	1 132.0	168.1	174.6	165.1	1 89 133.1 141.3 126.4
29	37206 273	1 124.0	167.1	174.6	164.6	1 74 132.0 142.2 126.0
30	37207 274	1 121.0	166.0	174.4	164.2	1 44 130.7 142.0 125.4

MONTHLY AVERAGE 164.0  
MONTHLY SMOOTHED 147.9

127.2  
97.9

OCTOBER 1960

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37208 275	4.333	6.000	5.333	5.333	5.000	4.000	4.333	5.333	39.667	4.958	
2	37209 276	4.667	4.667	5.667	5.000	6.000	5.667	4.667	3.000	39.333	4.917	
3	37210 277	2.667	2.333	2.667	5.000	3.000	2.667	1.667	2.000	22.000	2.750	
4	37211 278	1.667	.667	2.000	2.667	3.333	5.667	6.667	5.667	26.333	3.542	
5	37212 279	4.333	5.000	4.000	3.000	3.333	3.667	3.000	6.333	32.667	4.083	
6	37213 280	6.000	8.000	7.333	8.000	8.000	6.333	8.333	8.667	62.667	7.833	
7	37214 281	9.000	8.667	7.667	7.667	7.333	7.000	5.667	6.000	59.000	7.375	
8	37215 282	5.333	4.000	5.000	5.000	3.333	3.000	4.000	4.000	33.667	4.208	
9	37216 283	4.000	5.667	4.667	4.000	4.667	4.000	4.000	5.000	36.000	4.500	
10	37217 284	4.000	3.667	1.667	.667	.333	1.000	1.333	3.000	15.667	1.958	
11	37218 285	3.667	3.667	4.667	3.333	2.667	1.667	1.667	2.333	23.667	2.958	
12	37219 286	.667	1.000	1.000	2.000	.667	1.333	2.000	2.667	11.333	1.417	
13	37220 287	.667	1.333	1.000	.667	1.000	.667	.667	2.333	8.333	1.042	
14	37221 288	1.667	.667	.667	1.333	.000	.333	.000	.667	5.333	.667	
15	37222 289	1.000	2.333	2.000	3.000	3.667	4.333	4.333	3.333	24.000	3.000	
16	37223 290	2.000	2.333	1.667	1.333	2.667	.667	.000	1.667	12.333	1.542	
17	37224 291	2.667	1.000	1.667	1.667	2.333	1.333	1.667	1.667	14.000	1.750	
18	37225 292	4.333	3.667	3.667	3.000	3.333	3.667	5.333	4.000	31.000	3.875	
19	37226 293	2.000	3.667	2.333	2.333	2.000	2.000	1.667	3.000	19.000	2.375	
20	37227 294	1.000	3.000	2.333	2.667	2.000	3.000	1.667	2.667	18.333	2.292	
21	37228 295	2.667	1.000	2.667	2.000	1.333	.333	1.667	2.667	14.333	1.792	
22	37229 296	.333	.667	1.333	.333	.333	.333	.333	.000	3.667	.458	
23	37230 297	.333	.000	.667	.333	.333	1.000	1.667	1.333	5.667	.708	
24	37231 298	.333	.667	.667	1.667	4.333	6.000	4.333	2.000	20.000	2.500	
25	37232 299	2.333	2.667	5.667	5.667	5.667	7.667	7.333	5.333	42.333	5.292	
26	37233 300	6.667	6.000	6.000	5.667	5.667	4.667	4.333	4.000	43.000	5.375	
27	37234 301	4.667	4.667	3.000	5.333	4.333	4.667	4.333	5.333	36.333	4.542	
28	37235 302	4.667	5.667	5.000	5.333	5.000	5.333	4.333	3.000	38.333	4.792	
29	37236 303	5.000	3.667	4.000	5.667	5.000	5.000	4.000	4.000	36.667	4.583	
30	37237 304	4.000	3.667	4.667	5.333	4.667	4.000	3.667	4.333	34.667	4.333	
31	37238 305	4.667	3.333	4.000	4.000	3.667	4.667	4.667	3.333	32.333	4.042	

OCTOBER 1960

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37208	275	32	80	56	56	48	27	32	56					1.5
2	37209	276	39	39	67	48	80	67	39	15					1.4
3	37210	277	12	9	12	48	15	12	6	7					.7
4	37211	278	6	3	7	12	18	67	111	67					1.4
5	37212	279	32	48	27	15	18	22	15	94					1.3
6	37213	280	80	207	154	207	207	236	236	300					2.0
7	37214	281	400	300	179	179	154	132	67	80					2.0
8	37215	282	56	27	48	48	18	15	27	27					1.1
9	37216	283	27	67	39	27	39	27	27	48					1.3
10	37217	284	27	22	6	3	2	4	5	15					.5
11	37218	285	22	22	39	18	12	6	6	9					.8
12	37219	286	3	4	4	7	3	3	7	12					.2
13	37220	287	3	5	4	3	4	3	3	9					.1
14	37221	288	6	3	3	5	0	2	0	3					.0
15	37222	289	4	9	7	15	22	32	32	18					1.1
16	37223	290	7	9	6	5	12	3	0	6					.3
17	37224	291	12	4	6	6	9	5	6	6					.3
18	37225	292	32	22	22	15	18	22	56	27					1.3
19	37226	293	7	22	9	9	7	7	6	15					.5
20	37227	294	4	15	9	12	7	15	6	12					.6
21	37228	295	12	4	12	7	5	2	6	12					.4
22	37229	296	2	3	5	2	2	2	2	0					.0
23	37230	297	2	0	3	2	2	4	6	5					.1
24	37231	298	2	3	3	6	32	80	32	7					1.2
25	37232	299	9	12	67	67	179	154	56	56					1.7
26	37233	300	111	80	80	67	67	39	32	27					1.5
27	37234	301	39	39	15	56	32	39	32	56					1.4
28	37235	302	39	67	48	56	48	56	32	15					1.5
29	37236	303	48	22	27	67	48	48	27	32					1.4
30	37237	304	27	22	39	56	39	27	22	39					1.3
31	37238	305	39	18	27	27	22	39	39	18					1.2

OCTOBER 1960

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)---			1---RELATIVE ZURICH SUNSPOT NUMBER---				
		1---RUNNING MEANS---			1---RUNNING MEANS---				
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	37208 275	115.0	165.0	173.8	163.9	22	128.7	141.4	124.6
2	37207 276	112.0	163.9	173.1	163.6	34	126.9	140.6	124.0
3	37210 277	120.0	162.9	172.1	163.4	22	124.0	139.2	123.2
4	37211 278	132.0	161.7	171.1	163.2	53	121.9	137.3	122.6
5	37212 279	132.0	160.3	169.6	163.0	70	120.0	134.9	121.8
6	37213 280	132.0	158.8	167.7	162.8	92	118.3	132.3	121.2
7	37214 281	144.0	157.7	166.0	162.6	113	117.0	130.0	120.9
8	37215 282	143.0	156.5	164.2	162.4	110	115.7	127.4	120.5
9	37216 283	151.0	155.5	162.5	162.4	126	115.0	125.2	120.4
10	37217 284	160.0	154.7	160.9	162.5	140	114.3	123.1	120.4
11	37218 285	152.0	153.7	159.1	162.6	133	113.3	120.8	120.4
12	37219 286	160.0	153.0	157.7	162.7	116	112.0	118.7	120.3
13	37220 287	163.0	152.5	156.7	162.7	123	111.8	117.2	120.5
14	37221 288	167.0	151.8	156.0	163.0	108	111.2	115.9	120.4
15	37222 289	166.0	150.9	155.6	163.2	98	109.1	114.6	120.5
16	37223 290	166.0	149.7	155.5	163.4	98	106.6	114.0	120.6
17	37224 291	168.0	148.7	155.6	163.6	103	104.1	113.9	120.9
18	37225 292	155.0	147.4	155.6	163.6	98	101.2	113.2	121.0
19	37226 293	154.0	146.3	155.4	163.7	96	97.7	112.4	121.1
20	37227 294	150.0	145.4	155.4	163.8	92	94.9	112.1	121.2
21	37228 295	145.0	144.6	155.5	163.8	82	92.1	111.0	121.3
22	37229 296	142.0	144.3	155.8	163.9	60	89.1	111.1	121.3
23	37230 297	135.0	143.8	155.9	164.0	54	86.9	110.4	121.6
24	37231 298	130.0	143.4	155.8	164.1	49	85.1	109.4	121.8
25	37232 299	131.0	143.3	155.7	164.2	62	84.1	108.6	122.3
26	37233 300	133.0	143.7	155.4	164.3	72	84.1	108.0	122.9
27	37234 301	133.0	144.1	155.1	164.3	67	84.9	107.8	123.0
28	37235 302	123.0	144.4	154.7	164.0	52	86.0	107.4	122.9
29	37236 303	132.0	145.1	154.5	163.8	72	87.4	107.2	122.9
30	37237 304	129.0	145.5	154.2	163.2	82	89.7	106.8	122.7
31	37238 305	128.0	145.3	153.5	162.5	68	90.2	106.1	121.6

MONTHLY AVERAGE 142.0  
MONTHLY SMOOTHED 143.5

82.8  
93.3

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. OF JULIAN DAY	DAY	YEAR	KP								SUM KP	AVG. KP
				1	2	3	4	5	6	7	8		
1	37239	306	2.667	3.000	3.000	2.333	2.333	2.333	1.667	3.333	20.667	2.583	
2	37240	307	3.000	2.667	3.667	3.000	3.333	1.333	3.000	3.667	23.667	2.958	
3	37241	308	4.333	2.667	2.667	3.333	3.000	2.000	2.667	4.667	25.333	3.167	
4	37242	309	5.667	5.667	5.667	4.667	5.333	5.333	3.667	4.667	40.667	5.083	
5	37243	310	3.667	4.000	2.333	2.000	2.667	1.000	.333	.333	16.333	2.042	
6	37244	311	.000	1.000	2.333	2.333	1.667	.333	2.333	2.000	12.000	1.500	
7	37245	312	3.000	2.667	2.667	1.667	.667	.333	.000	.000	11.000	1.375	
8	37246	313	.000	.000	2.000	1.667	.667	.667	.333	1.333	6.667	.833	
9	37247	314	1.667	2.000	2.000	2.333	1.667	.333	.000	1.000	11.000	1.375	
10	37248	315	.000	.000	2.333	2.333	3.000	2.333	1.000	.667	11.667	1.458	
11	37249	316	2.333	3.333	3.667	4.667	3.333	2.000	3.000	2.667	25.000	3.125	
12	37250	317	2.000	1.000	2.000	1.667	5.000	6.000	7.667	8.000	33.333	4.167	
13	37251	318	8.667	8.667	9.000	9.000	8.667	8.333	8.000	6.333	66.667	8.333	
14	37252	319	7.333	4.667	5.000	4.000	2.667	4.333	5.333	4.000	37.333	4.667	
15	37253	320	5.333	4.000	4.333	3.000	6.000	6.000	6.000	7.667	42.333	5.292	
16	37254	321	8.333	8.333	6.000	5.333	5.667	4.667	3.333	3.333	45.000	5.625	
17	37255	322	3.667	3.000	3.333	3.000	2.667	3.667	4.000	2.667	26.000	3.250	
18	37256	323	3.333	2.000	1.000	1.333	.667	.667	.333	.000	9.333	1.167	
19	37257	324	.000	2.000	1.333	2.667	3.000	.667	.333	1.333	11.333	1.417	
20	37258	325	2.000	2.333	2.333	2.667	3.000	2.667	1.000	1.667	17.667	2.208	
21	37259	326	1.000	4.333	5.667	4.667	5.000	5.000	6.000	4.667	36.333	4.542	
22	37260	327	5.667	5.333	4.667	3.667	3.333	2.667	2.000	3.667	31.000	3.875	
23	37261	328	2.667	2.667	3.667	2.333	2.000	1.000	1.667	2.000	18.000	2.250	
24	37262	329	3.667	2.333	3.333	1.000	2.000	2.000	3.000	5.000	22.333	2.792	
25	37263	330	4.000	4.667	5.333	5.333	4.667	4.333	4.333	4.333	37.000	4.625	
26	37264	331	2.667	4.333	3.667	3.333	3.667	1.333	3.000	2.667	24.667	3.083	
27	37265	332	2.667	3.000	3.333	3.000	3.333	4.000	4.667	3.667	27.667	3.458	
28	37266	333	5.000	4.667	3.667	3.333	3.667	2.000	1.333	1.000	24.667	3.083	
29	37267	334	3.333	2.333	1.667	2.667	1.667	1.333	1.667	2.667	17.333	2.167	
30	37268	335	2.000	3.000	1.667	1.000	1.667	1.667	4.000	5.667	20.667	2.583	

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

215



# GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

217



DECEMBER 1960

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	AP												MAGNETIC CHARACTER	
		1	2	3	4	5	6	7	8	AP	AP	AP	AP	AP	AP
1	37269 336	94	207	111	48	56	60	67	80	92.875	1.8				
2	37270 337	22	27	22	27	48	18	22	22	25.500	1.2				
3	37271 338	9	27	7	12	5	6	2	4	9.000	.3				
4	37272 339	3	0	7	6	9	9	7	3	5.500	.3				
5	37273 340	4	15	5	15	15	9	15	5	10.375	.5				
6	37274 341	4	12	9	22	32	27	32	27	20.625	1.2				
7	37275 342	7	22	9	12	27	6	48	67	24.750	1.3				
8	37276 343	39	56	22	27	12	6	4	6	21.500	.9				
9	37277 344	7	32	18	22	32	18	22	12	20.375	1.1				
10	37278 345	12	12	5	7	7	9	18	7	9.625	.6				
11	37279 346	4	5	9	6	12	12	12	15	9.375	.4				
12	37280 347	15	15	9	15	12	15	27	32	17.500	1.1				
13	37281 348	22	22	27	15	18	4	4	3	13.750	.6				
14	37282 349	0	3	7	15	9	7	3	4	6.000	.3				
15	37283 350	12	15	18	27	80	56	56	80	43.000	1.5				
16	37284 351	67	67	48	39	22	7	5	9	33.000	1.2				
17	37285 352	3	6	15	7	6	5	7	7	7.000	.2				
18	37286 353	12	27	48	39	18	27	27	12	26.250	1.3				
19	37287 354	16	18	18	22	12	12	12	27	17.375	.9				
20	37288 355	27	27	16	27	12	12	39	27	23.625	1.2				
21	37289 356	48	15	9	9	18	32	27	39	24.625	1.2				
22	37290 357	22	27	27	22	12	15	12	22	19.675	.9				
23	37291 358	16	18	15	19	27	7	7	6	14.500	.7				
24	37292 359	9	12	5	9	22	22	15	27	15.125	1.0				
25	37293 360	22	7	6	7	6	3	12	6	8.625	.3				
26	37294 361	27	27	27	12	18	7	6	6	16.250	.8				
27	37295 362	7	27	48	48	49	80	94	48	50.000	1.6				
28	37296 363	27	12	18	56	27	22	18	6	23.250	1.1				
29	37297 364	27	18	22	18	9	39	12	7	19.000	1.0				
30	37298 365	7	22	18	9	12	27	27	12	16.750	.9				
31	37299 366	6	18	22	15	18	22	15	7	15.375	1.0				

DECEMBER 1960

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1- DAILY	2- DAILY	3- DAILY	4- DAILY	5- DAILY	6- DAILY	7- DAILY	8- DAILY	9- DAILY	10- DAILY	11- DAILY	12- DAILY	13- DAILY	14- DAILY	15- DAILY	16- DAILY	17- DAILY	18- DAILY	19- DAILY	20- DAILY	21- DAILY	22- DAILY	23- DAILY	24- DAILY	25- DAILY	26- DAILY	27- DAILY	28- DAILY	29- DAILY	30- DAILY	31- DAILY
1	37269	336	1	130.0	150.8	147.5	150.5	1	74	91.5	89.1	98.0																				
2	37270	337	1	147.0	150.9	147.4	150.1	1	92	92.1	88.5	97.3																				
3	37271	338	1	154.0	151.1	147.3	149.8	1	101	92.5	87.7	96.6																				
4	37272	339	1	165.0	151.3	147.5	149.6	1	111	92.3	87.3	96.0																				
5	37273	340	1	161.0	151.0	147.5	149.4	1	102	91.2	87.1	95.4																				
6	37274	341	1	163.0	150.6	147.5	149.2	1	104	90.3	86.7	95.1																				
7	37275	342	1	154.0	148.8	147.3	148.8	1	94	88.7	86.5	94.7																				
8	37276	343	1	156.0	147.5	147.1	148.4	1	99	87.4	86.5	94.1																				
9	37277	344	1	152.0	146.9	146.9	147.6	1	97	86.7	86.5	93.2																				
10	37278	345	1	153.0	145.8	146.6	147.3	1	103	86.0	86.5	92.4																				
11	37279	346	1	146.0	144.0	146.4	146.8	1	102	84.9	86.6	91.4																				
12	37280	347	1	142.0	142.4	146.2	145.2	1	101	83.7	86.7	90.4																				
13	37281	348	1	138.0	141.0	146.0	145.8	1	92	82.7	86.7	89.4																				
14	37282	349	1	134.0	139.9	145.8	145.4	1	101	82.6	87.0	88.7																				
15	37283	350	1	140.0	139.3	145.7	145.2	1	108	83.1	87.9	88.3																				
16	37284	351	1	136.0	138.7	145.7	145.1	1	103	83.9	88.8	88.2																				
17	37285	352	1	127.0	138.0	145.7	144.9	1	92	84.3	89.6	88.1																				
18	37286	353	1	120.0	137.2	145.5	144.8	1	82	84.6	90.0	88.0																				
19	37287	354	1	117.0	136.8	145.2	144.7	1	70	84.8	89.9	88.0																				
20	37288	355	1	120.0	136.9	144.9	144.7	1	71	85.2	90.0	88.3																				
21	37289	356	1	118.0	137.1	144.9	144.7	1	63	85.6	90.2	88.8																				
22	37290	357	1	107.0	136.9	144.4	144.6	1	44	85.7	89.7	89.0																				
23	37291	358	1	104.0	136.4	143.9	144.4	1	35	84.8	88.8	89.1																				
24	37292	359	1	107.0	135.9	143.5	144.1	1	37	84.0	88.3	89.9																				
25	37293	360	1	112.0	135.7	143.3	143.9	1	57	84.0	87.9	88.0																				
26	37294	361	1	118.0	135.6	143.1	143.7	1	48	83.4	87.3	88.2																				
27	37295	362	1	127.0	135.4	143.0	143.5	1	70	83.4	87.4	87.7																				
28	37296	363	1	138.0	135.4	143.1	143.4	1	86	83.9	87.7	87.4																				
29	37297	364	1	147.0	135.4	143.1	143.4	1	94	84.0	88.0	87.0																				
30	37298	365	1	161.0	135.7	143.4	143.4	1	103	84.0	88.3	86.5																				
31	37299	366	1	165.0	135.7	143.5	143.6	1	118	84.3	88.3	86.3																				

MONTHLY AVERAGE 137.6  
MONTHLY SMOOTHED 133.5

85.6  
83.7

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	YEAR	KP										SUM KP	AVG. KP
			1	2	3	4	5	6	7	8	9	10		
1	37300	1	2.667	2.667	3.000	1.667	1.333	1.000	.333	.667	13.333	1.667		
2	37301	2	.000	.333	1.333	2.000	1.333	.667	1.000	7.667	.958			
3	37302	3	1.000	2.000	2.333	.667	.667	1.333	1.000	10.000	1.250			
4	37303	4	.000	.667	1.000	.667	1.000	1.000	.333	5.667	.708			
5	37304	5	.333	.000	1.000	1.333	.667	.333	2.333	8.000	1.000			
6	37305	6	.667	2.567	1.667	2.667	2.333	.667	.333	11.667	1.458			
7	37306	7	2.667	3.000	1.333	1.333	2.333	1.333	1.000	2.667	1.958			
8	37307	8	4.000	4.000	3.667	3.333	3.000	4.000	4.333	2.667	3.625			
9	37308	9	2.333	4.000	4.667	4.667	4.000	3.667	4.333	5.000	4.083			
10	37309	10	2.333	.333	1.333	1.667	1.667	1.333	.667	1.000	10.333			
11	37310	11	.333	.667	.667	.000	.333	.000	.000	.000	2.000			
12	37311	12	.333	2.333	2.000	.667	.667	1.333	1.667	1.667	1.333			
13	37312	13	2.000	1.000	2.667	2.667	3.333	1.667	2.333	1.667	17.333			
14	37313	14	1.333	.667	.333	.667	.333	1.333	1.333	3.000	9.000			
15	37314	15	3.000	2.333	3.667	3.000	2.667	2.000	.667	5.667	23.000			
16	37315	16	3.000	4.000	4.000	1.333	.333	.333	2.667	2.333	18.000			
17	37316	17	2.667	2.000	2.333	2.333	.333	1.333	1.333	2.000	16.333			
18	37317	18	2.667	1.667	2.667	3.333	4.667	2.667	3.667	3.000	24.333			
19	37318	19	3.667	2.333	1.667	1.333	3.000	4.333	5.667	5.333	27.333			
20	37319	20	6.000	5.667	5.000	4.000	4.333	4.667	4.000	1.667	35.417			
21	37320	21	1.667	3.667	4.000	3.667	4.000	4.333	1.333	1.333	24.000			
22	37321	22	1.333	2.000	4.333	4.333	4.333	4.000	3.333	3.000	26.667			
23	37322	23	2.667	2.333	1.667	1.333	.667	2.000	1.333	1.333	13.333			
24	37323	24	2.667	3.000	4.333	3.000	3.333	3.000	4.000	2.667	26.000			
25	37324	25	4.000	4.333	2.667	4.000	4.000	2.000	2.333	2.000	25.333			
26	37325	26	1.667	2.000	2.667	4.000	4.000	3.000	2.333	2.667	20.667			
27	37326	27	2.667	1.667	2.667	2.667	2.333	1.667	1.667	.667	15.667			
28	37327	28	3.667	1.667	1.667	2.667	2.333	2.667	3.667	2.000	20.333			
29	37328	29	2.667	2.667	1.667	1.667	3.000	2.000	2.333	1.667	17.667			
30	37329	30	1.333	2.667	1.667	1.667	.000	.333	.000	1.000	8.333			
31	37330	31	2.333	1.667	1.000	.333	.333	.333	.667	.000	6.667			

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

221

JANUARY 1961

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1
			DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY	54-DAY
1	37300	1	166.0	135.9	143.4	143.6	145
2	37301	2	179.0	136.4	143.5	143.8	133
3	37302	3	174.0	137.3	143.6	144.0	109
4	37303	4	167.0	137.7	142.6	144.0	84
5	37304	5	162.0	138.1	142.5	143.9	78
6	37305	6	145.0	137.8	141.8	143.7	69
7	37306	7	134.0	137.4	140.7	143.4	63
8	37307	8	127.0	136.8	139.6	143.1	58
9	37308	9	124.0	136.3	138.7	142.7	61
10	37309	10	116.0	135.6	137.7	142.4	53
11	37310	11	111.0	134.6	136.9	142.0	43
12	37311	12	104.0	133.4	136.1	141.6	35
13	37312	13	97.0	132.3	135.1	141.2	28
14	37313	14	97.0	131.4	134.3	140.3	25
15	37314	15	98.0	130.7	133.8	140.4	27
16	37315	16	101.0	130.0	133.5	140.0	43
17	37316	17	103.0	129.4	133.3	139.7	53
18	37317	18	104.0	129.3	133.1	139.4	51
19	37318	19	103.0	129.3	132.8	139.0	50
20	37319	20	103.0	129.1	132.5	138.7	45
21	37320	21	105.0	128.9	132.3	138.5	50
22	37321	22	103.0	128.3	132.0	138.2	44
23	37322	23	101.0	127.4	131.4	137.8	35
24	37323	24	104.0	126.1	130.8	137.4	23
25	37324	25	104.0	124.5	130.0	136.9	27
26	37325	26	109.0	122.6	129.1	136.4	43
27	37326	27	110.0	120.6	128.1	135.9	47
28	37327	28	126.0	119.1	127.5	135.3	62
29	37328	29	133.0	117.4	126.9	134.8	81
30	37329	30	130.0	115.6	126.5	133.9	65
31	37330	31	124.0	114.0	125.9	133.1	66

MONTHLY AVERAGE 121.5  
MONTHLY SMOOTHED 129.457.9  
80.2

86.7 86.5 85.9 85.9 85.9 85.5 84.2 85.6 85.1 84.7 84.4 84.1 83.9 83.7 83.2 82.6 82.3 82.4 82.1 81.7 81.4 81.1 80.7 80.2 79.7 79.1 78.5 77.7 76.8 76.2 75.3 74.5

FEBRUARY 1961

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP	
1	37331	32	1.000	.667	.000	.333	.667	1.000	1.667	.667	6.000	.750
2	37332	33	.667	.333	.000	.333	.667	.000	.000	.333	2.333	.292
3	37333	34	1.000	.333	1.000	3.667	4.667	3.000	2.333	2.333	18.333	2.292
4	37334	35	1.333	2.000	2.000	1.333	5.000	4.333	6.667	7.000	29.667	3.708
5	37335	36	5.667	5.667	5.333	3.667	2.000	2.000	.667	1.000	26.000	3.250
6	37336	37	2.333	2.333	5.000	4.000	3.667	4.667	2.667	3.000	27.667	3.458
7	37337	38	3.000	3.333	2.000	2.333	2.333	1.333	1.667	3.667	19.667	2.458
8	37338	39	3.000	1.667	2.000	1.667	2.000	2.000	3.000	2.333	17.667	2.208
9	37339	40	3.000	2.667	2.333	2.000	1.667	1.667	.000	1.000	14.333	1.792
10	37340	41	1.667	.333	1.000	.333	.000	.333	1.333	2.000	7.000	.875
11	37341	42	2.667	3.000	1.000	3.333	2.000	.667	1.333	1.333	15.333	1.917
12	37342	43	.000	1.000	.333	.333	.333	.333	.333	1.000	3.667	.450
13	37343	44	1.333	1.333	4.000	5.000	4.333	4.667	3.333	2.333	26.333	3.292
14	37344	45	2.000	1.333	1.333	1.333	.667	1.333	3.000	3.000	14.000	1.750
15	37345	46	2.667	1.667	1.667	3.000	2.000	1.333	.667	.333	13.333	1.667
16	37346	47	3.667	3.667	4.667	5.333	4.667	3.333	2.333	2.667	30.333	3.792
17	37347	48	1.667	.667	2.000	4.333	5.000	3.667	4.333	6.000	27.667	3.458
18	37348	49	6.667	5.333	5.000	5.000	5.000	5.333	4.333	1.667	38.333	4.792
19	37349	50	3.000	2.333	3.333	3.333	4.667	3.667	3.000	2.333	25.667	3.208
20	37350	51	3.667	3.667	4.000	4.000	4.667	5.333	3.333	4.000	32.667	4.000
21	37351	52	3.000	3.000	3.667	3.333	3.667	4.667	3.667	4.333	29.333	3.657
22	37352	53	3.000	4.000	3.333	3.333	2.667	3.333	2.000	4.000	25.667	3.208
23	37353	54	3.000	2.667	3.000	2.000	2.000	1.667	3.333	2.000	19.667	2.458
24	37354	55	2.333	1.000	4.000	1.000	1.333	.667	.333	.000	13.667	1.708
25	37355	56	.000	.000	1.000	1.667	.333	.333	1.333	2.000	6.667	.833
26	37356	57	1.333	1.000	.333	.667	.667	1.333	1.333	.667	7.333	.917
27	37357	58	.667	3.333	2.000	1.667	2.667	3.000	1.333	.667	15.333	1.917
28	37358	59	2.333	3.000	2.667	3.000	3.000	1.667	2.667	2.333	20.667	2.583

FEBRUARY 1961

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP			AP			AP			AP			AP			MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	37331	32	4	3	0	2	3	4	6	3					3.125			.0
2	37332	33	3	2	0	2	3	0	0	2					1.500			.0
3	37333	34	4	2	4	22	39	15	9	9					13.000			.9
4	37334	35	5	7	7	5	48	32	111	132					43.375			1.5
5	37335	36	6	6	56	22	7	7	3	4					29.125			1.2
6	37336	37	9	9	48	27	22	39	12	15					22.625			1.2
7	37337	38	15	18	7	9	9	5	6	22					11.375			.6
8	37338	39	15	6	7	6	7	7	15	9					9.000			.4
9	37339	40	15	12	9	7	6	6	0	4					7.375			.2
10	37340	41	6	2	4	2	0	2	5	7					3.500			.0
11	37341	42	12	15	4	18	7	3	5	5					8.625			.3
12	37342	43	0	4	2	2	2	2	2	4					2.250			.0
13	37343	44	5	5	27	48	32	39	18	9					22.875			1.3
14	37344	45	7	5	5	5	3	5	15	15					7.500			.6
15	37345	46	12	6	6	15	7	5	3	2					7.000			.3
16	37346	47	22	22	39	56	39	18	9	12					27.125			1.2
17	37347	48	6	3	7	32	48	22	32	80					28.750			1.3
18	37348	49	11	56	48	48	48	56	32	6					50.625			1.4
19	37349	50	15	9	18	18	39	22	15	9					18.125			1.0
20	37350	51	22	22	27	27	39	56	18	27					29.750			1.2
21	37351	52	15	15	22	18	22	39	22	32					23.125			1.1
22	37352	53	15	27	18	18	12	18	7	27					17.750			.8
23	37353	54	15	12	15	7	7	6	18	7					10.875			.5
24	37354	55	9	27	27	4	5	3	2	0					9.625			.3
25	37355	56	0	0	4	6	2	2	5	7					3.250			.1
26	37356	57	5	4	2	3	3	5	5	3					3.750			.0
27	37357	58	3	18	7	6	12	15	5	3					8.625			.3
28	37358	59	9	15	12	15	15	6	12	9					11.625			.7

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

[illegible]

MONTHLY AVERAGE 105.8  
MONTHLY SMOOTHED 124.5

45.1  
74.8



MARCH 1961

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP	
1	2	3	4	5	6	7	8					
1	37359	60	1.333	2.667	2.000	1.667	3.333	.333	1.667	2.333	15.333	1.917
2	37360	61	2.333	3.333	2.667	1.667	.333	.667	1.333	2.000	14.333	1.792
3	37361	62	3.000	1.333	1.333	.667	1.000	1.000	.333	.333	9.000	1.125
4	37362	63	.000	.333	.667	.667	2.333	1.000	.000	.333	5.333	.667
5	37363	64	1.000	2.000	1.000	1.333	.667	1.333	3.333	5.667	16.333	2.042
6	37364	65	6.667	3.000	4.000	4.333	4.333	1.667	1.000	.333	28.333	3.542
7	37365	66	.000	.000	.333	.667	1.000	1.000	1.667	2.000	6.667	.833
8	37366	67	1.667	1.667	.667	.667	.667	1.000	1.333	2.333	10.000	1.250
9	37367	68	2.000	2.667	2.667	1.000	3.333	3.000	3.000	3.667	21.333	2.667
10	37368	69	4.000	4.667	6.333	7.000	5.000	3.000	1.667	1.333	33.000	4.125
11	37369	70	.667	1.333	1.667	1.667	2.000	1.667	2.333	1.000	12.333	1.542
12	37370	71	3.333	.667	1.000	2.000	1.667	.667	.667	2.333	12.333	1.542
13	37371	72	3.000	2.000	3.000	1.667	2.000	3.000	1.667	1.667	18.000	2.250
14	37372	73	4.333	4.667	4.333	4.000	3.333	3.667	4.000	2.333	30.667	3.833
15	37373	74	2.000	4.000	2.667	4.333	5.000	2.667	3.000	4.667	28.333	3.542
16	37374	75	4.667	3.333	5.333	3.000	3.333	2.667	.667	.667	23.667	2.958
17	37375	76	2.333	2.333	4.667	4.000	2.667	1.667	1.000	1.333	20.000	2.500
18	37376	77	2.000	1.333	1.333	.333	2.667	3.667	4.000	3.000	18.333	2.292
19	37377	78	1.667	5.000	6.000	3.667	4.667	5.333	4.333	3.667	34.333	4.292
20	37378	79	3.667	3.000	2.667	4.000	3.667	2.667	3.667	2.000	25.333	3.167
21	37379	80	3.000	3.333	1.667	2.000	1.333	3.000	3.000	1.000	18.333	2.292
22	37380	81	2.667	3.667	4.333	3.333	2.333	1.667	.667	.333	19.000	2.375
23	37381	82	1.000	2.667	2.667	2.000	3.667	2.333	2.000	1.333	17.667	2.208
24	37382	83	1.333	2.333	1.667	3.333	2.333	2.000	1.333	2.000	16.333	2.042
25	37383	84	1.667	.333	.667	.667	2.333	1.333	1.000	1.333	9.333	1.167
26	37384	85	1.000	2.333	2.667	3.000	2.333	1.333	1.000	3.000	16.667	2.063
27	37385	86	2.000	2.000	2.333	2.667	2.667	6.000	4.667	1.667	24.000	3.000
28	37386	87	4.000	4.333	3.667	3.000	3.000	2.667	2.333	.667	23.667	2.958
29	37387	88	.667	1.333	1.000	1.667	2.333	1.333	2.333	1.333	12.000	1.500
30	37388	89	2.667	4.000	3.667	1.667	1.667	1.333	1.000	.333	18.333	2.042
31	37389	90	.333	.667	.667	1.000	1.667	3.333	2.000	2.000	11.667	1.458

MARCH 1961

GEOMAGNETIC PLANETARY INDICES  
PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. OF JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37359	60	5	12	7	6	18	2	6	9	9	8.125			.3
2	37360	61	9	18	12	6	2	3	5	7	7	7.750			.2
3	37361	62	15	5	5	3	4	4	2	2	2	5.000			.1
4	37362	63	0	2	3	3	9	4	0	2	2	2.875			.1
5	37363	64	4	7	4	5	3	5	18	67	67	14.125			.9
6	37364	65	111	80	27	32	32	6	4	2	2	36.750			1.3
7	37365	66	0	0	2	3	4	4	6	7	7	3.250			.2
8	37366	67	6	6	3	3	3	4	5	9	9	4.875			.2
9	37367	68	7	12	12	4	18	15	15	22	22	13.125			.9
10	37368	69	27	39	94	132	48	15	6	5	5	45.750			1.4
11	37369	70	3	5	6	6	7	6	9	4	4	5.750			.3
12	37370	71	10	3	4	7	6	3	3	9	9	6.625			.2
13	37371	72	15	7	15	6	7	15	6	6	6	9.625			.4
14	37372	73	32	39	32	27	18	22	27	9	9	25.750			1.2
15	37373	74	7	27	12	32	48	12	15	39	39	24.000			1.2
16	37374	75	39	18	56	15	18	12	3	3	3	20.500			1.1
17	37375	76	9	9	39	27	12	6	4	5	5	13.875			.6
18	37376	77	7	5	5	2	12	22	27	15	15	11.875			.8
19	37377	78	0	48	80	22	39	56	32	22	22	38.125			1.3
20	37378	79	22	15	17	27	22	12	22	7	7	17.375			.9
21	37379	80	15	16	6	7	5	15	15	4	4	10.625			.6
22	37380	81	12	22	32	18	9	6	3	2	2	13.000			.7
23	37381	82	4	12	12	7	22	9	7	5	5	9.750			.6
24	37382	83	5	9	6	10	9	7	5	7	7	8.250			.4
25	37383	84	6	2	3	3	9	5	4	5	5	4.625			.1
26	37384	85	4	9	12	15	9	5	4	15	15	9.125			.5
27	37385	86	7	7	9	12	12	40	39	6	6	21.500			1.2
28	37386	87	27	32	22	15	15	12	9	3	3	16.875			1.0
29	37387	88	3	5	4	6	9	5	9	5	5	5.750			.4
30	37388	89	12	27	22	6	6	5	4	2	2	10.500			.6
31	37389	90	2	3	3	4	6	18	7	7	7	6.250			.4

MARCH 1961

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	SOLAR FLUX (10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER		
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	37359	60	103.0	104.4	106.1	118.0	1	17
2	37360	61	103.0	103.8	107.5	117.5	1	33
3	37361	62	104.0	103.2	107.1	117.0	1	49
4	37362	63	96.0	102.4	106.6	116.5	1	46
5	37363	64	94.0	101.3	106.1	116.0	1	34
6	37364	65	93.0	100.5	105.8	115.4	1	41
7	37365	66	95.0	99.9	105.6	114.9	1	38
8	37366	67	94.0	99.3	105.6	114.5	1	49
9	37367	68	90.0	98.8	105.5	114.1	1	49
10	37368	69	91.0	98.4	105.3	113.8	1	33
11	37369	70	98.0	98.4	105.3	113.5	1	34
12	37370	71	92.0	98.3	105.1	113.2	1	15
13	37371	72	93.0	98.1	104.9	113.0	1	27
14	37372	73	91.0	97.9	104.6	112.9	1	46
15	37373	74	98.0	97.9	104.6	112.8	1	42
16	37374	75	99.0	98.0	104.4	112.6	1	52
17	37375	76	98.0	98.1	104.4	112.3	1	66
18	37376	77	101.0	98.3	104.4	112.0	1	51
19	37377	78	102.0	98.4	104.3	111.6	1	45
20	37378	79	105.0	98.6	104.3	111.1	1	39
21	37379	80	105.0	98.7	104.3	110.4	1	46
22	37380	81	106.0	98.8	104.2	109.6	1	60
23	37381	82	110.0	99.0	103.9	109.0	1	61
24	37382	83	116.0	99.4	103.6	108.2	1	76
25	37383	84	118.0	100.0	103.4	107.4	1	64
26	37384	85	121.0	100.7	103.3	106.9	1	63
27	37385	86	125.0	101.5	103.3	106.4	1	88
28	37386	87	126.0	102.4	103.4	106.2	1	95
29	37387	88	126.0	103.2	103.5	106.1	1	95
30	37388	89	125.0	104.0	103.6	106.0	1	97
31	37389	90	117.0	104.8	103.6	106.0	1	93
MONTHLY AVERAGE			104.4					53.0
MONTHLY SMOOTHED			119.6					68.9

APRIL 1961

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	YEAR	1	2	3	4	5	6	7	8	SUM	AVG.
			KP	KP	KP	KP	KP	KP	KP	KP	KP	KP
1	37390	91	4.667	3.667	4.000	2.667	2.000	1.667	2.333	2.667	23.667	2.958
2	37391	92	1.667	3.333	4.000	2.333	3.000	2.000	3.333	3.000	22.667	2.833
3	37392	93	4.000	6.000	4.667	4.000	2.333	2.667	2.333	2.667	28.667	3.583
4	37393	94	3.000	1.333	2.667	.667	.667	.333	1.000	.333	10.000	1.250
5	37394	95	2.333	3.000	1.000	1.667	.667	1.000	.333	.000	10.000	1.250
6	37395	96	1.333	.667	1.000	1.000	1.333	1.667	3.667	3.667	14.333	1.792
7	37396	97	3.667	3.333	.667	2.000	1.000	.667	1.000	1.000	13.333	1.667
8	37397	98	1.000	1.333	2.333	2.667	.667	.667	1.667	1.333	11.667	1.458
9	37398	99	1.667	2.333	2.667	6.333	4.667	3.000	2.667	2.333	25.667	3.208
10	37399	100	3.667	3.667	3.333	3.667	3.333	3.000	3.333	2.667	26.667	3.333
11	37400	101	4.000	5.000	3.000	3.333	3.333	5.333	3.333	1.667	29.000	3.625
12	37401	102	2.000	1.667	3.333	2.000	3.333	2.667	2.333	1.667	19.000	2.375
13	37402	103	1.667	2.333	1.667	1.333	3.667	5.333	2.667	2.000	20.667	2.583
14	37403	104	2.667	3.000	2.667	3.667	4.333	5.333	7.000	7.333	36.000	4.500
15	37404	105	7.667	7.000	6.000	3.333	3.333	4.333	3.333	2.667	37.667	4.708
16	37405	106	2.667	2.667	2.000	2.333	3.000	2.667	3.333	3.667	22.333	2.792
17	37406	107	1.333	1.667	1.333	1.333	1.667	1.333	.667	.000	9.333	1.167
18	37407	108	1.333	2.000	2.333	1.667	1.000	1.000	.333	1.000	10.667	1.333
19	37408	109	1.667	2.333	2.000	1.000	1.333	2.000	2.667	2.333	15.333	1.917
20	37409	110	3.333	2.000	2.667	1.000	.667	1.000	1.333	1.000	13.000	1.625
21	37410	111	.000	.333	.000	.333	1.333	.333	1.000	1.333	4.667	.583
22	37411	112	.333	.000	.667	1.667	2.667	3.000	2.667	3.333	14.333	1.792
23	37412	113	1.000	1.667	2.333	2.000	2.667	1.333	2.667	2.667	16.333	2.042
24	37413	114	3.333	2.667	1.333	2.000	2.333	2.333	2.667	3.000	19.667	2.458
25	37414	115	3.667	2.333	1.333	1.333	1.000	1.333	2.000	1.333	14.333	1.792
26	37415	116	2.667	3.333	2.333	1.667	3.000	3.667	3.667	1.000	21.333	2.667
27	37416	117	1.667	3.000	3.333	3.333	3.333	2.333	1.667	2.000	20.667	2.583
28	37417	118	3.333	2.333	2.333	1.333	1.000	.667	1.667	1.000	13.667	1.708
29	37418	119	2.333	.000	.000	2.000	.667	1.000	1.333	3.000	10.333	1.292
30	37419	120	2.667	1.667	1.333	2.000	2.667	2.667	1.667	3.333	18.333	2.292

APRIL 1961

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37390	91	39	22	27	12	7	6	9	12	16.750	1.0			
2	37391	92	6	18	27	9	15	7	19	15	14.375	.9			
3	37392	93	27	80	39	27	9	12	9	12	26.875	1.2			
4	37393	94	15	5	12	3	3	2	4	2	5.750	.2			
5	37394	95	9	15	4	6	3	4	2	0	5.375	.2			
6	37395	96	5	3	4	4	5	6	22	22	8.875	.6			
7	37396	97	22	18	3	7	4	3	4	4	8.125	.5			
8	37397	98	4	5	9	12	3	3	6	5	5.875	.2			
9	37398	99	6	9	12	94	39	15	12	9	24.500	1.2			
10	37399	100	22	22	18	22	18	15	18	12	19.375	1.0			
11	37400	101	27	48	15	18	18	56	18	6	25.750	1.3			
12	37401	102	7	6	18	7	18	12	9	6	10.375	.6			
13	37402	103	6	9	6	5	22	56	12	7	15.375	.8			
14	37403	104	12	15	12	22	32	56	132	154	54.375	1.5			
15	37404	105	179	132	80	18	18	32	18	12	61.125	1.5			
16	37405	106	12	12	7	9	15	12	18	22	13.375	.9			
17	37406	107	5	6	5	5	6	5	3	0	4.375	.1			
18	37407	108	5	7	9	6	4	4	2	4	5.125	.1			
19	37408	109	6	9	7	4	5	7	12	9	7.375	.5			
20	37409	110	18	7	12	4	3	4	5	4	7.125	.3			
21	37410	111	0	2	0	2	5	2	4	5	2.500	.0			
22	37411	112	2	0	3	6	12	15	12	18	8.500	.6			
23	37412	113	4	6	9	7	12	5	12	12	8.375	.5			
24	37413	114	18	12	5	7	9	9	12	15	10.875	.7			
25	37414	115	22	9	5	5	4	5	7	5	7.750	.4			
26	37415	116	12	18	9	6	15	22	22	4	13.500	.6			
27	37416	117	6	15	18	18	18	9	6	7	12.125	.8			
28	37417	118	18	9	9	5	4	3	6	4	7.250	.4			
29	37418	119	9	0	0	7	3	4	5	15	5.375	.3			
30	37419	120	9	6	5	7	12	12	6	18	9.375	.6			

APRIL 1961

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF I	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS---	1---RUNNING MEANS---	1---RUNNING MEANS---			
DAY	YEAR	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY	81-DAY---			
1	37390 91	113.0	105.5	103.4	105.9	87	57.5	49.1	49.0
2	37391 92	105.0	105.7	103.2	105.9	60	58.2	49.3	49.2
3	37392 93	101.0	106.1	103.0	105.8	55	58.8	49.3	49.4
4	37393 94	103.0	106.5	102.9	105.9	73	59.7	49.4	50.0
5	37394 95	107.0	107.1	103.0	106.0	86	61.1	49.9	50.7
6	37395 96	106.0	107.7	103.1	106.1	82	62.9	50.4	51.4
7	37396 97	98.0	107.7	103.1	106.1	64	64.0	51.0	51.7
8	37397 98	104.0	108.1	103.2	106.1	66	65.9	51.6	51.8
9	37398 99	96.0	108.2	103.2	106.0	49	66.7	52.1	51.6
10	37399 100	93.0	108.3	103.1	105.9	48	66.8	52.5	51.8
11	37400 101	92.0	108.1	103.0	105.7	47	67.0	52.9	51.8
12	37401 102	89.0	107.7	102.9	105.5	42	66.6	53.0	51.7
13	37402 103	88.0	107.3	102.7	105.3	40	65.6	53.1	51.6
14	37403 104	93.0	107.0	102.7	105.2	41	65.3	53.4	51.7
15	37404 105	96.0	106.9	102.6	105.2	53	65.6	53.9	52.1
16	37405 106	103.0	106.8	102.7	105.2	60	66.3	54.1	52.5
17	37406 107	105.0	106.8	102.8	105.1	78	67.5	54.7	52.9
18	37407 108	107.0	106.9	102.8	105.1	72	68.0	55.1	53.2
19	37408 109	105.0	106.7	102.9	104.8	65	68.1	55.3	53.3
20	37409 110	103.0	106.2	102.8	104.4	56	67.4	55.3	53.0
21	37410 111	104.0	105.7	102.9	104.1	52	66.9	55.3	52.8
22	37411 112	103.0	105.0	102.9	103.9	38	66.0	55.2	52.5
23	37412 113	105.0	104.3	102.9	103.6	36	64.1	55.4	52.2
24	37413 114	111.0	103.7	103.0	103.5	36	61.9	55.8	52.0
25	37414 115	111.0	103.1	103.2	103.4	48	60.1	56.1	51.8
26	37415 116	126.0	103.2	103.6	103.5	60	58.8	56.3	51.6
27	37416 117	120.0	103.3	104.0	103.5	82	58.4	56.9	51.0
28	37417 118	114.0	103.3	104.4	103.4	74	57.9	57.7	52.1
29	37418 119	121.0	103.9	104.9	103.5	92	59.1	58.6	52.6
30	37419 120	122.0	104.7	105.4	103.6	99	60.7	59.6	53.1

MONTHLY AVERAGE 104.9  
MONTHLY SMOOTHED 115.5

61.4  
64.3

MAY 1961

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR KP INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37420 121	3.333	3.667	1.333	3.333	3.333	3.000	1.667	.667	3.333	22.000	2.750
2	37421 122	5.667	4.667	2.667	3.000	1.000	1.667	.667	.667	.667	20.000	2.500
3	37422 123	.333	1.333	1.333	1.000	.667	.667	.667	1.000	.333	6.667	.833
4	37423 124	.000	.333	1.000	1.000	.667	1.667	1.667	3.000	4.333	12.000	1.500
5	37424 125	2.333	2.667	3.667	3.667	2.333	2.333	5.333	3.667	3.667	26.000	3.250
6	37425 126	2.667	5.000	5.000	4.667	4.667	2.000	2.000	3.667	3.667	31.333	3.917
7	37426 127	3.667	3.000	4.667	3.667	3.000	3.000	3.667	2.333	3.333	27.333	3.417
8	37427 128	2.333	2.333	2.667	2.000	2.000	2.333	2.333	3.667	3.000	20.333	2.542
9	37428 129	1.333	2.667	4.000	4.667	2.667	3.000	3.000	1.333	2.000	21.667	2.708
10	37429 130	2.333	1.333	1.667	2.000	1.667	1.000	1.000	1.667	3.333	15.000	1.675
11	37430 131	3.667	3.000	3.333	2.667	3.667	3.667	3.667	4.333	2.667	27.000	3.375
12	37431 132	3.667	3.667	3.000	2.667	2.667	2.000	3.000	2.667	3.333	24.000	3.000
13	37432 133	5.333	4.667	3.000	3.000	3.667	2.333	2.333	2.333	2.000	26.333	3.292
14	37433 134	3.000	3.667	2.667	3.000	1.667	1.333	1.333	.667	.667	16.667	2.083
15	37434 135	.000	.333	.333	1.333	.667	.667	1.333	1.667	2.333	8.000	1.000
16	37435 136	4.000	5.333	4.667	3.000	4.333	4.000	4.000	3.000	2.667	31.000	3.875
17	37436 137	3.000	1.667	1.333	1.333	2.333	2.667	2.333	.333	1.000	14.667	1.833
18	37437 138	1.000	.667	1.000	1.000	1.000	.667	.333	.333	.333	5.333	.667
19	37438 139	1.667	2.000	1.667	2.000	2.000	2.000	2.000	2.000	3.333	16.667	2.083
20	37439 140	3.333	4.333	3.667	3.667	2.000	2.333	2.000	2.333	.667	20.667	2.583
21	37440 141	1.333	1.000	1.333	1.000	1.000	1.000	1.000	2.333	2.000	11.000	1.375
22	37441 142	2.667	2.333	2.333	1.667	1.667	1.667	3.000	3.667	2.000	19.333	2.417
23	37442 143	2.333	3.667	2.333	2.667	3.667	3.667	3.667	2.667	1.333	22.333	2.792
24	37443 144	3.000	2.333	1.667	1.333	1.667	1.667	2.000	1.000	2.333	15.333	1.917
25	37444 145	3.667	5.667	5.667	4.333	3.667	4.333	3.667	4.333	2.000	33.000	4.125
26	37445 146	3.667	1.000	2.000	1.333	2.333	2.333	1.000	.667	1.333	13.333	1.667
27	37446 147	2.333	2.333	2.333	1.000	1.333	1.333	1.000	.333	1.000	11.667	1.458
28	37447 148	1.000	.667	1.000	1.667	1.667	3.000	3.000	3.333	3.333	17.000	2.125
29	37448 149	1.000	2.667	1.667	.333	.333	.333	.667	1.333	.667	8.667	1.083
30	37449 150	1.333	1.333	2.333	2.667	2.667	2.667	2.667	1.333	2.333	16.667	2.083
31	37450 151	3.667	3.333	3.667	3.667	3.667	4.000	4.000	3.333	3.667	29.333	3.667

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

233



MAY 1961

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1-----RELATIVE ZURICH SUNSPOT NUMBER-----1-----	1-----RUNNING MEANS-----1-----RUNNING MEANS-----1-----	DAILY 27-DAY	54-DAY	81-DAY	1	DAILY 27-DAY	54-DAY	81-DAY	
1	37420 121	1	125.0	105.5	106.0	103.8	1	102	61.8	60.7	53.5
2	37421 122	1	119.0	106.0	106.5	104.0	1	84	61.7	61.4	53.8
3	37422 123	1	111.0	106.1	106.9	104.1	1	72	61.3	62.1	54.1
4	37423 124	1	104.0	106.4	107.0	104.2	1	55	61.0	62.5	54.3
5	37424 125	1	103.0	106.3	107.2	104.2	1	42	60.1	63.0	54.5
6	37425 126	1	97.0	106.4	107.3	104.2	1	39	59.7	63.2	54.6
7	37426 127	1	97.0	106.5	107.4	104.2	1	37	59.3	63.1	54.8
8	37427 128	1	94.0	106.6	107.3	104.2	1	31	50.7	62.9	54.9
9	37428 129	1	96.0	106.9	107.3	104.2	1	44	58.8	62.7	54.9
10	37429 130	1	92.0	107.0	107.2	104.1	1	46	59.0	62.3	55.1
11	37430 131	1	98.0	107.2	107.1	104.2	1	45	59.2	62.2	55.3
12	37431 132	1	101.0	107.3	107.1	104.2	1	56	59.3	62.4	55.7
13	37432 133	1	97.0	107.1	106.9	104.2	1	52	59.0	62.7	55.8
14	37433 134	1	93.0	106.6	106.7	104.0	1	46	57.8	62.7	55.7
15	37434 135	1	91.0	106.0	106.4	103.9	1	38	56.6	62.3	55.6
16	37435 136	1	88.0	105.4	106.0	103.7	1	31	55.3	61.7	55.3
17	37436 137	1	88.0	104.9	105.5	103.5	1	23	54.1	60.7	54.9
18	37437 138	1	95.0	104.5	105.1	103.4	1	44	53.8	60.4	54.8
19	37438 139	1	100.0	104.4	104.7	103.4	1	47	54.1	60.1	54.9
20	37439 140	1	105.0	104.4	104.3	103.4	1	59	55.0	59.5	55.3
21	37440 141	1	110.0	104.4	104.0	103.5	1	66	56.1	59.0	55.9
22	37441 142	1	109.0	104.3	103.7	103.6	1	71	56.9	58.5	56.4
23	37442 143	1	110.0	103.7	103.4	103.6	1	74	57.4	58.1	56.7
24	37443 144	1	108.0	103.3	103.3	103.8	1	78	57.3	57.6	57.1
25	37444 145	1	106.0	103.0	103.1	103.9	1	72	57.2	57.6	57.5
26	37445 146	1	98.0	101.7	102.8	103.9	1	47	55.6	57.3	57.6
27	37446 147	1	95.0	100.7	102.7	103.9	1	41	53.4	57.1	57.6
28	37447 148	1	91.0	99.5	102.5	103.8	1	38	51.0	56.4	57.5
29	37448 149	1	91.0	98.4	102.2	103.8	1	36	49.3	55.5	57.3
30	37449 150	1	88.0	97.6	101.9	103.8	1	41	48.1	54.7	57.4
31	37450 151	1	88.0	97.0	101.7	103.7	1	24	47.0	54.0	57.3

MONTHLY AVERAGE 99.3  
MONTHLY SMOOTHED 111.151.0  
60.1

JUNE 1961

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37451 152	3.000	3.000	3.000	4.667	5.667	5.333	3.333	3.000	31.000	3.875
2	37452 153	3.667	2.333	3.667	4.667	4.667	4.667	5.000	1.000	29.667	3.708
3	37453 154	2.333	3.667	3.333	3.000	1.333	1.000	.667	1.667	17.000	2.125
4	37454 155	1.667	2.333	2.667	2.333	3.000	1.333	.667	1.333	15.333	1.917
5	37455 156	1.333	3.000	2.667	2.333	1.333	2.000	2.333	2.000	17.000	2.125
6	37456 157	1.667	1.667	2.667	1.333	2.333	5.333	4.000	3.000	22.000	2.750
7	37457 158	2.000	2.667	3.667	4.333	5.000	3.667	4.000	3.333	28.667	3.583
8	37458 159	4.000	3.333	3.333	3.000	3.333	2.667	2.667	2.667	25.000	3.125
9	37459 160	.667	1.000	2.000	2.000	1.333	2.000	2.333	2.000	13.333	1.667
10	37460 161	1.333	1.333	1.667	1.333	2.000	.333	.000	.000	8.000	1.000
11	37461 162	.333	.667	.333	.333	.667	.667	1.000	.000	4.000	.500
12	37462 163	1.000	3.667	2.667	2.000	2.000	2.000	.667	.333	14.333	1.792
13	37463 164	.333	.667	.333	1.333	1.000	.667	.667	1.000	6.000	.750
14	37464 165	1.000	.000	.667	1.000	.333	.333	.667	3.333	7.333	.917
15	37465 166	2.333	2.333	2.000	3.333	3.000	2.667	2.333	1.667	19.667	2.458
16	37466 167	3.667	2.000	1.333	2.333	2.000	2.667	2.667	1.667	18.333	2.292
17	37467 168	1.333	1.667	.333	1.333	2.667	1.000	1.333	2.000	11.667	1.458
18	37468 169	1.333	1.667	2.000	3.000	2.667	3.333	3.333	4.333	21.667	2.708
19	37469 170	2.333	3.000	2.000	1.667	1.000	.667	2.000	1.667	14.333	1.792
20	37470 171	1.667	2.333	2.333	1.667	.333	2.000	3.333	4.000	17.667	2.208
21	37471 172	5.000	4.667	4.333	5.667	5.667	4.333	5.000	7.000	41.667	5.200
22	37472 173	6.667	5.667	4.667	5.000	4.000	5.000	5.333	5.000	41.667	5.208
23	37473 174	3.667	1.667	1.000	.667	1.667	2.667	2.000	2.333	15.667	1.958
24	37474 175	2.333	2.000	1.000	1.000	1.333	1.333	1.667	1.333	12.000	1.500
25	37475 176	1.667	1.667	1.333	3.000	2.000	2.000	2.000	3.333	17.000	2.125
26	37476 177	1.333	1.000	.333	.333	3.000	2.000	2.000	.667	10.667	1.333
27	37477 178	.333	1.667	3.000	3.000	2.667	1.333	.333	.333	12.667	1.593
28	37478 179	.333	1.000	1.333	1.667	1.667	1.333	.667	1.000	9.000	1.125
29	37479 180	3.333	6.333	4.667	3.333	2.667	2.000	2.000	1.667	26.000	3.250
30	37480 181	2.333	1.333	.667	.333	.333	.333	1.000	1.333	7.667	.958

JUNE 1961

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP			AP			AP			AP			AP			MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	37451	152	15	15	15	39	67	56	18	15								1.3
2	37452	153	22	9	22	39	39	39	48	4								1.3
3	37453	154	9	22	19	15	5	4	3	6								.6
4	37454	155	6	9	12	9	15	5	3	5								.4
5	37455	156	5	15	12	9	5	7	9	7								.4
6	37456	157	6	6	12	5	9	56	27	15								1.0
7	37457	158	7	12	22	32	48	22	27	18								1.1
8	37458	159	27	18	12	15	18	12	12	12								1.0
9	37459	160	3	4	7	7	5	7	9	7								.3
10	37460	161	5	5	6	5	7	2	0	0								.1
11	37461	162	2	3	2	2	3	3	4	0								.0
12	37462	163	4	22	12	7	7	7	3	2								.6
13	37463	164	2	3	2	5	4	3	3	4								.1
14	37464	165	4	0	3	4	2	2	3	18								.2
15	37465	166	9	9	7	18	15	12	9	6								.7
16	37466	167	22	7	5	9	12	12	12	6								.6
17	37467	168	5	6	2	5	12	4	5	7								.3
18	37468	169	5	6	7	15	12	18	18	32								.8
19	37469	170	9	15	7	6	4	3	7	6								.3
20	37470	171	6	9	9	6	2	7	14	27								.7
21	37471	172	48	39	32	67	67	32	48	132								1.7
22	37472	173	111	67	39	48	27	48	56	48								1.6
23	37473	174	22	6	4	3	6	12	7	9								.4
24	37474	175	9	7	4	4	5	5	6	5								.3
25	37475	176	6	6	5	15	7	7	7	18								.5
26	37476	177	5	4	2	2	15	7	7	3								.4
27	37477	178	2	6	15	15	12	5	2	2								.4
28	37478	179	2	4	5	6	6	5	3	4								.1
29	37479	180	18	94	39	18	12	7	7	6								1.4
30	37480	181	9	5	3	2	2	2	4	5								.1

JUNE 1961

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN	DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER--1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1				
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY			
1	37451	152	86.0	96.4	101.4	103.6	1	30	46.5	53.3	57.5
2	37452	153	88.0	96.0	101.2	103.5	1	42	46.6	53.2	57.7
3	37453	154	92.0	95.9	101.2	103.6	1	48	47.0	53.2	57.7
4	37454	155	89.0	95.7	101.1	103.4	1	62	48.2	53.5	58.0
5	37455	156	86.0	95.3	101.1	103.3	1	55	48.6	53.7	58.0
6	37456	157	88.0	95.1	101.1	103.2	1	49	48.7	53.9	57.8
7	37457	158	89.0	94.8	101.0	103.0	1	40	48.5	53.9	57.7
8	37458	159	91.0	94.4	100.9	102.9	1	45	48.1	53.7	57.7
9	37459	160	100.0	94.6	100.8	102.0	1	58	48.3	53.7	57.9
10	37460	161	102.0	94.9	100.8	102.8	1	77	49.5	53.6	58.3
11	37461	162	110.0	95.4	100.8	102.8	1	62	51.1	53.8	58.5
12	37462	163	108.0	96.3	100.9	102.0	1	72	52.6	54.0	58.7
13	37463	164	114.0	97.3	101.1	102.8	1	75	54.6	54.3	58.7
14	37464	165	123.0	98.3	101.4	102.8	1	80	55.9	54.8	59.9
15	37465	166	129.0	99.4	101.9	102.9	1	123	58.7	56.4	59.6
16	37466	167	132.0	100.4	102.4	103.0	1	128	61.3	58.1	60.1
17	37467	168	137.0	101.4	102.9	103.2	1	128	63.6	59.8	60.5
18	37468	169	136.0	102.4	103.4	103.3	1	128	65.7	61.3	60.9
19	37469	170	131.0	103.2	103.4	103.4	1	112	67.1	62.3	61.1
20	37470	171	131.0	104.0	103.6	103.5	1	116	68.5	62.9	61.4
21	37471	172	132.0	105.0	104.0	103.8	1	128	70.6	63.9	61.9
22	37472	173	134.0	106.7	104.2	104.1	1	123	73.4	64.5	62.7
23	37473	174	135.0	108.2	104.5	104.5	1	96	75.4	64.4	63.2
24	37474	175	117.0	109.1	104.3	104.7	1	87	77.2	64.1	63.3
25	37475	176	111.0	109.9	104.2	104.8	1	70	78.5	63.9	63.1
26	37476	177	108.0	110.6	104.1	104.8	1	56	79.0	63.6	62.8
27	37477	178	99.0	111.0	104.0	104.8	1	51	80.0	63.5	62.7
28	37478	179	95.0	111.4	103.9	104.7	1	38	80.3	63.4	62.3
29	37479	180	102.0	111.9	104.0	104.8	1	59	81.0	63.8	62.4
30	37480	181	103.0	112.3	104.1	104.9	1	63	81.5	64.3	62.6

MONTHLY AVERAGE 109.9  
MONTHLY SMOOTHED 106.9

77.4  
55.8

JULY 1961

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37401 182	2.667	2.667	2.667	2.667	3.000	2.000	2.667	.333	1.000	17.000	2.125
2	37402 183	1.333	2.333	2.667	2.667	2.333	1.667	3.333	3.667	3.000	20.333	2.542
3	37403 184	1.667	2.000	3.333	3.333	4.000	4.333	4.000	2.333	1.333	23.000	2.875
4	37404 185	2.333	1.333	1.667	1.667	2.333	3.000	2.667	3.000	5.333	21.667	2.708
5	37405 186	6.000	6.333	4.000	4.000	4.000	5.000	4.667	3.000	4.000	37.000	4.625
6	37406 187	3.000	4.000	2.667	2.667	2.333	2.000	4.667	2.667	2.333	23.667	2.958
7	37407 188	4.000	2.667	3.333	3.333	3.000	3.333	2.667	1.667	.667	21.333	2.667
8	37408 189	1.667	2.000	2.667	2.667	2.667	2.667	2.333	1.667	2.667	18.333	2.292
9	37409 190	2.333	2.333	3.667	3.667	2.000	1.333	2.667	1.000	.667	16.000	2.000
10	37410 191	2.667	4.000	3.667	3.667	2.667	2.667	3.333	1.667	2.000	22.667	2.833
11	37411 192	3.000	2.000	1.333	1.333	1.333	1.333	2.667	2.667	2.333	16.667	2.083
12	37412 193	1.667	1.000	2.667	2.667	1.000	1.000	.333	1.333	.333	9.333	1.167
13	37413 194	.333	1.000	.667	.667	6.333	8.000	8.333	7.667	6.333	38.667	4.833
14	37414 195	4.667	3.000	6.667	6.667	6.333	7.333	6.667	6.333	4.000	47.000	5.875
15	37415 196	3.000	4.667	3.000	3.000	3.000	4.333	2.333	4.667	4.667	29.667	3.708
16	37416 197	5.667	4.000	2.667	2.667	2.333	3.333	3.333	3.667	2.667	27.667	3.458
17	37417 198	3.000	2.667	2.333	2.333	3.667	4.333	2.333	6.333	6.333	31.000	3.875
18	37418 199	5.000	6.333	6.000	6.000	5.000	7.667	7.000	5.667	6.333	49.000	6.125
19	37419 200	6.000	4.667	1.333	1.333	.333	1.667	1.000	1.000	1.333	17.333	2.167
20	37420 201	2.000	3.000	3.333	3.333	2.000	1.667	3.000	4.000	5.333	24.333	3.042
21	37421 202	5.000	5.667	5.667	5.667	2.667	3.333	4.000	4.000	2.667	33.000	4.125
22	37422 203	2.667	2.667	3.667	3.667	3.000	2.667	2.667	.667	1.000	19.000	2.375
23	37423 204	1.000	1.000	1.667	1.667	3.333	3.667	5.000	3.667	3.000	22.333	2.792
24	37424 205	2.000	3.333	3.333	3.333	3.333	3.333	2.333	1.333	2.333	21.333	2.667
25	37425 206	4.000	3.333	3.333	3.333	3.000	2.333	1.667	2.000	2.333	22.000	2.750
26	37426 207	4.000	3.667	1.667	1.667	2.000	1.667	1.000	5.333	5.333	24.667	3.083
27	37427 208	4.000	4.333	8.333	8.333	8.333	6.000	5.333	6.333	7.333	50.000	6.250
28	37428 209	4.000	3.000	3.333	3.333	3.333	2.000	3.667	4.000	2.333	25.667	3.208
29	37429 210	1.667	3.333	2.333	2.333	1.333	2.333	1.333	1.667	2.000	16.000	2.000
30	37430 211	2.333	1.667	3.000	3.000	1.667	1.333	1.000	2.333	2.000	15.333	1.917
31	37431 212	1.333	.667	1.000	1.000	1.667	2.667	1.667	2.333	1.667	13.000	1.625

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

239

JULY 1961

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. JULIAN DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----1										1-----RELATIVE ZURICH SUNSPOT NUMBER-----1																				
			1-----RUNNING MEANS-----1					1-----RUNNING MEANS-----1					1-----RUNNING MEANS-----1					1-----RUNNING MEANS-----1															
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	
1		37481 182	1	104.0	112.9	104.3	105.0	1	60	81.4	64.8	62.8																					
2		37482 183	1	99.0	113.3	104.3	105.2	1	63	81.8	55.2	63.1																					
3		37483 184	1	104.0	114.9	104.5	105.4	1	68	82.5	65.6	63.4																					
4		37484 185	1	103.0	114.4	104.6	105.5	1	63	83.4	65.9	63.7																					
5		37485 186	1	108.0	115.0	104.7	105.6	1	44	83.3	65.7	63.6																					
6		37486 187	1	102.0	115.1	104.8	105.6	1	55	83.2	65.8	63.5																					
7		37487 188	1	105.0	115.2	105.0	105.6	1	57	82.5	66.0	63.3																					
8		37488 189	1	107.0	115.1	105.3	105.6	1	60	81.7	66.4	63.1																					
9		37489 190	1	112.0	115.2	105.8	105.7	1	65	81.4	67.0	63.1																					
10		37490 191	1	124.0	115.6	106.4	105.9	1	73	81.3	67.9	63.3																					
11		37491 192	1	135.0	116.1	107.2	106.3	1	85	81.5	68.7	63.7																					
12		37492 193	1	137.0	116.4	107.9	106.6	1	96	80.5	69.6	64.4																					
13		37493 194	1	141.0	116.8	108.6	107.2	1	86	79.0	70.1	65.1																					
14		37494 195	1	135.0	116.7	109.1	107.5	1	113	78.4	71.0	66.0																					
15		37495 196	1	136.0	116.7	109.6	107.8	1	107	77.6	71.6	66.7																					
16		37496 197	1	132.0	116.8	110.0	107.9	1	99	77.1	72.1	67.2																					
17		37497 198	1	137.0	117.0	110.5	108.1	1	92	76.3	72.4	67.3																					
18		37498 199	1	131.0	117.0	111.0	108.3	1	82	74.6	72.6	67.4																					
19		37499 200	1	125.0	116.7	111.7	108.4	1	86	73.2	73.3	67.4																					
20		37500 201	1	123.0	116.2	112.2	108.4	1	85	72.8	74.1	67.2																					
21		37501 202	1	119.0	116.3	112.7	108.3	1	85	72.7	75.0	67.0																					
22		37502 203	1	119.0	116.6	113.2	108.3	1	75	72.9	75.7	66.9																					
23		37503 204	1	118.0	116.9	113.8	108.4	1	81	73.8	76.4	67.0																					
24		37504 205	1	116.0	117.6	114.3	108.6	1	78	74.8	77.4	67.3																					
25		37505 206	1	117.0	118.4	114.9	108.7	1	63	75.7	78.0	67.5																					
26		37506 207	1	115.0	118.9	115.4	109.0	1	62	75.9	78.4	67.8																					
27		37507 208	1	111.0	119.2	115.8	109.1	1	53	75.5	79.5	68.0																					
28		37508 209	1	105.0	119.3	116.1	109.3	1	42	74.8	78.1	68.1																					
29		37509 210	1	103.0	119.4	116.4	109.3	1	32	73.6	77.7	68.0																					
30		37510 211	1	92.0	119.0	116.4	109.3	1	30	72.2	77.4	67.6																					
31		37511 212	1	91.0	118.5	116.5	109.3	1	34	71.1	77.2	67.7																					

MONTHLY AVERAGE 116.5  
MONTHLY SMOOTHED 104.0

70.2  
53.1

AUGUST 1961

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOON OF DAY	DAY OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37512	213	3.000	3.333	3.333	1.333	1.000	1.000	1.000	1.667	2.667	15.000	1.875
2	37513	214	5.333	6.333	6.333	5.667	4.333	4.000	4.000	3.333	3.000	36.000	4.500
3	37514	215	2.667	3.667	3.667	3.667	3.333	3.333	2.667	3.333	3.667	26.333	3.292
4	37515	216	4.667	3.667	3.667	3.667	3.333	3.000	2.667	2.667	1.667	25.333	3.167
5	37516	217	1.333	1.667	2.333	3.333	3.333	2.667	1.667	1.667	2.333	17.000	2.125
6	37517	218	2.333	1.333	1.333	1.667	1.667	2.333	1.667	1.667	2.333	14.667	1.833
7	37518	219	.333	.667	.333	.667	.667	2.000	.667	1.667	2.000	8.333	1.042
8	37519	220	1.000	2.000	4.000	4.000	4.000	3.000	2.333	4.667	1.333	22.333	2.792
9	37520	221	1.667	2.333	1.333	.333	.333	1.000	1.000	.333	.000	8.000	1.000
10	37521	222	2.333	2.667	3.333	3.333	2.333	3.667	2.000	2.000	1.667	20.000	2.500
11	37522	223	3.667	4.333	2.667	3.333	3.333	4.667	3.333	3.667	4.000	29.667	3.708
12	37523	224	1.667	2.000	1.667	.333	.333	.667	1.667	2.333	3.000	13.333	1.667
13	37524	225	2.333	1.000	.333	.333	.333	.000	.000	.333	.000	4.333	.542
14	37525	226	.000	.000	1.000	1.333	1.333	3.000	4.000	2.667	.667	12.667	1.583
15	37526	227	1.000	1.333	3.667	1.667	1.667	2.000	2.000	1.333	1.667	14.667	1.833
16	37527	228	2.667	2.333	1.000	.333	.333	.333	.667	.667	1.000	9.000	1.125
17	37528	229	1.000	1.000	1.000	1.000	2.333	1.333	.667	2.000	1.333	10.667	1.333
18	37529	230	1.000	.333	1.000	1.667	1.667	2.000	2.000	.667	1.333	10.667	1.250
19	37530	231	1.667	3.333	3.333	3.333	2.667	2.333	1.333	.333	1.333	16.333	2.042
20	37531	232	.667	.667	.000	.000	2.333	2.000	3.000	2.333	1.000	12.000	1.500
21	37532	233	1.667	1.667	1.333	1.333	1.333	1.333	1.333	1.000	.667	10.333	1.292
22	37533	234	.667	.667	.333	.667	.333	.333	.333	.333	.667	3.667	.458
23	37534	235	.333	.333	.333	.667	.333	.667	.667	.667	1.000	4.667	.583
24	37535	236	.000	.000	.333	.333	.667	1.000	2.333	2.333	2.000	8.667	1.083
25	37536	237	2.000	1.667	2.000	2.333	2.333	3.000	1.667	1.667	3.333	17.667	2.208
26	37537	238	2.000	2.333	2.000	3.333	3.333	2.333	1.333	3.000	3.333	19.667	2.458
27	37538	239	3.000	2.000	3.333	3.333	1.000	1.000	1.333	1.333	1.000	14.000	1.750
28	37539	240	2.333	2.000	1.000	1.333	1.333	1.000	.667	1.000	1.333	10.667	1.333
29	37540	241	1.667	.667	.333	.333	1.333	1.333	3.667	5.000	4.667	18.667	2.333
30	37541	242	4.667	3.667	3.667	2.333	4.333	6.000	5.333	3.667	4.667	34.667	4.333
31	37542	243	4.667	5.333	5.000	2.667	2.667	3.333	4.000	3.333	3.667	32.000	4.000



AUGUST 1961

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY	JULIAN OF DAY	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37512	213	15	18	5	4	4	4	6	12	12	8.500			.5
2	37513	214	56	94	67	32	27	27	10	15	15	42.000			1.4
3	37514	215	12	22	22	18	18	12	18	22	22	18.000			1.0
4	37515	216	39	22	22	18	15	12	12	6	6	18.250			1.1
5	37516	217	5	6	9	18	12	6	6	9	9	8.875			.7
6	37517	218	9	5	5	6	9	6	6	9	9	6.875			.5
7	37518	219	2	3	2	3	7	3	6	7	7	4.125			.2
8	37519	220	4	7	27	27	15	9	39	5	5	16.625			.8
9	37520	221	6	9	5	2	4	4	2	0	0	4.000			.1
10	37521	222	9	12	18	9	22	7	7	6	6	11.250			.7
11	37522	223	22	32	12	18	39	10	22	27	27	23.750			1.2
12	37523	224	6	7	6	2	3	6	9	15	15	6.750			.4
13	37524	225	9	4	2	2	0	0	2	0	0	2.375			.2
14	37525	226	0	0	4	5	15	27	12	3	3	9.250			.6
15	37526	227	4	5	22	6	7	7	5	6	6	7.750			.6
16	37527	228	12	9	4	2	2	3	3	4	4	4.875			.3
17	37528	229	4	4	4	9	5	3	7	5	5	5.125			.3
18	37529	230	4	2	4	6	7	7	3	5	5	4.750			.3
19	37530	231	6	18	18	12	9	5	2	5	5	9.375			.4
20	37531	232	3	3	0	9	7	15	9	4	4	6.250			.4
21	37532	233	6	6	5	5	5	5	4	3	3	4.875			.2
22	37533	234	3	2	3	2	2	2	2	3	3	2.375			.0
23	37534	235	2	2	3	2	3	3	3	4	4	2.750			.2
24	37535	236	0	0	2	3	4	9	9	7	7	4.250			.3
25	37536	237	7	6	7	9	15	6	6	18	18	9.250			.7
26	37537	238	7	9	7	18	9	5	15	18	18	11.000			.8
27	37538	239	15	7	14	4	4	5	5	4	4	7.750			.6
28	37539	240	9	7	7	5	4	3	4	5	5	5.125			.2
29	37540	241	6	3	2	5	5	22	48	39	39	16.250			1.0
30	37541	242	39	22	9	32	80	56	22	39	39	37.375			1.4
31	37542	243	39	56	48	12	18	27	18	22	22	30.000			1.3

AUGUST 1961

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	2-----RELATIVE ZURICH SUNSPOT NUMBER-----2	3-----RUNNING MEANS-----3	4-----RUNNING MEANS-----4	5-----RUNNING MEANS-----5	6-----RUNNING MEANS-----6	7-----RUNNING MEANS-----7	8-----RUNNING MEANS-----8	9-----RUNNING MEANS-----9	10-----RUNNING MEANS-----10	11-----RUNNING MEANS-----11	12-----RUNNING MEANS-----12	13-----RUNNING MEANS-----13	14-----RUNNING MEANS-----14	15-----RUNNING MEANS-----15	16-----RUNNING MEANS-----16	17-----RUNNING MEANS-----17	18-----RUNNING MEANS-----18	19-----RUNNING MEANS-----19	20-----RUNNING MEANS-----20	21-----RUNNING MEANS-----21	22-----RUNNING MEANS-----22	23-----RUNNING MEANS-----23	24-----RUNNING MEANS-----24	25-----RUNNING MEANS-----25	26-----RUNNING MEANS-----26	27-----RUNNING MEANS-----27	28-----RUNNING MEANS-----28	29-----RUNNING MEANS-----29	30-----RUNNING MEANS-----30	31-----RUNNING MEANS-----31
1	37512	213	1	90.0	117.9	116.5	109.1	1	39	70.9	77.1	67.5																					
2	37513	214	1	87.0	117.4	116.2	109.0	1	17	69.5	76.4	67.0																					
3	37514	215	1	91.0	116.9	116.0	109.0	1	24	68.3	75.4	66.8																					
4	37515	216	1	89.0	116.1	115.6	108.9	1	23	66.9	74.3	66.6																					
5	37516	217	1	90.0	115.3	115.3	109.0	1	14	65.0	73.2	66.4																					
6	37517	218	1	92.0	114.1	114.9	109.0	1	11	62.7	72.0	66.2																					
7	37518	219	1	99.0	112.7	114.4	109.1	1	14	60.1	70.8	65.8																					
8	37519	220	1	105.0	111.5	114.0	109.1	1	37	57.9	69.2	65.7																					
9	37520	221	1	113.0	110.5	113.6	109.2	1	59	56.9	67.9	65.7																					
10	37521	222	1	122.0	110.0	113.4	109.4	1	84	55.9	67.1	65.9																					
11	37522	223	1	130.0	109.7	113.2	109.6	1	109	55.9	66.8	66.4																					
12	37523	224	1	128.0	109.6	113.2	109.9	1	103	56.1	66.6	66.8																					
13	37524	225	1	128.0	109.3	113.1	110.1	1	103	56.5	66.4	67.1																					
14	37525	226	1	127.0	109.1	113.0	110.4	1	104	57.3	65.9	67.5																					
15	37526	227	1	123.0	109.0	112.8	110.8	1	108	58.1	65.6	63.2																					
16	37527	228	1	119.0	108.9	112.5	111.1	1	98	58.6	65.7	63.9																					
17	37528	229	1	114.0	108.9	112.6	111.4	1	85	58.6	65.6	69.5																					
18	37529	230	1	116.0	108.8	112.7	111.7	1	71	58.4	65.7	69.9																					
19	37530	231	1	113.0	108.6	112.8	112.0	1	72	58.1	66.0	70.3																					
20	37531	232	1	109.0	108.3	112.9	112.3	1	52	57.1	66.0	70.7																					
21	37532	233	1	104.0	107.8	113.1	112.5	1	45	56.5	66.1	70.9																					
22	37533	234	1	103.0	107.3	113.1	112.7	1	39	55.6	65.7	70.8																					
23	37534	235	1	98.0	106.9	113.0	112.8	1	33	54.9	65.2	70.6																					
24	37535	236	1	97.0	106.6	112.9	112.9	1	37	54.7	64.8	70.3																					
25	37536	237	1	93.0	106.2	112.8	113.0	1	49	55.3	64.5	70.2																					
26	37537	238	1	95.0	106.3	112.6	113.1	1	45	55.9	64.0	70.2																					
27	37538	239	1	95.0	106.4	112.5	113.1	1	54	56.6	63.9	70.4																					
28	37539	240	1	100.0	106.8	112.4	113.2	1	36	56.5	63.7	70.3																					
29	37540	241	1	103.0	107.4	112.4	113.3	1	54	57.9	63.7	70.2																					
30	37541	242	1	106.0	108.0	112.4	113.3	1	58	59.1	63.7	70.0																					
31	37542	243	1	108.0	108.7	112.4	113.3	1	54	60.3	63.6	69.6																					

MONTHLY AVERAGE 106.2  
MONTHLY SMOOTHED 102.7

55.8  
52.5

SEPTEMBER 1961

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37543 244	4.333	4.667	4.333	4.333	4.333	2.333	3.333	4.333	4.333	32.000	4.000
2	37544 245	2.333	2.000	3.000	3.000	4.333	2.667	2.667	1.333	2.667	21.000	2.625
3	37545 246	3.000	3.667	3.333	3.667	3.000	1.333	1.667	2.000	1.333	19.333	2.417
4	37546 247	.667	1.000	2.333	2.333	2.000	1.667	.333	.333	2.333	10.667	1.333
5	37547 248	3.667	3.000	2.667	1.333	1.333	2.000	2.000	2.667	2.667	20.000	2.500
6	37548 249	1.333	2.667	.667	.667	1.333	1.333	.667	.333	.333	8.667	1.083
7	37549 250	.667	1.000	1.333	.667	.667	.333	.667	1.000	1.000	6.667	.833
8	37550 251	.333	1.000	.667	.667	.667	.667	1.000	1.333	1.000	6.667	.833
9	37551 252	1.000	1.333	3.333	3.333	3.667	1.333	1.333	.667	1.667	14.333	1.792
10	37552 253	2.667	1.000	.667	.667	2.000	1.667	2.333	1.667	2.000	14.000	1.750
11	37553 254	1.000	2.333	1.333	1.333	2.333	2.333	3.000	3.000	4.000	19.333	2.417
12	37554 255	2.333	4.333	5.000	5.000	3.000	2.333	1.000	1.000	3.000	22.000	2.750
13	37555 256	1.667	2.000	1.000	1.000	.667	.333	2.667	2.667	3.000	14.000	1.750
14	37556 257	3.000	4.000	3.667	3.667	3.667	6.000	2.333	3.333	4.333	30.333	3.792
15	37557 258	2.667	1.333	2.333	2.333	1.667	2.000	.667	.333	1.333	12.333	1.542
16	37558 259	2.000	2.000	1.333	1.333	2.000	2.667	1.333	2.000	2.333	15.667	1.958
17	37559 260	4.000	4.333	2.000	2.000	2.000	1.333	1.333	1.333	.333	16.667	2.083
18	37560 261	2.000	3.333	.667	.667	1.000	2.000	2.667	.667	.333	12.667	1.583
19	37561 262	.333	1.333	.333	.333	.333	1.333	.333	.333	.333	4.667	.583
20	37562 263	1.667	2.333	2.667	2.667	1.333	1.667	2.667	3.000	2.333	17.667	2.208
21	37563 264	.333	.333	.667	.667	.667	.333	.667	.667	.333	4.000	.500
22	37564 265	.333	.667	.667	.667	1.000	2.667	2.000	2.000	1.667	11.000	1.375
23	37565 266	.667	.000	.000	.000	.667	.667	.667	1.000	1.000	4.667	.583
24	37566 267	1.333	1.333	2.667	2.667	5.333	6.000	6.000	5.000	5.000	32.667	4.083
25	37567 268	5.000	5.333	6.000	6.000	4.000	3.667	3.333	2.667	3.000	33.000	4.125
26	37568 269	3.333	2.000	2.333	2.333	2.333	3.333	4.333	3.333	3.667	25.667	3.208
27	37569 270	3.667	4.667	4.333	4.333	4.667	4.333	4.000	2.000	2.000	29.667	3.708
28	37570 271	1.333	.333	.667	.667	.667	.333	.333	1.333	3.000	8.000	1.000
29	37571 272	2.000	2.000	1.667	1.667	1.000	1.333	2.000	1.333	1.000	12.333	1.542
30	37572 273	2.000	3.000	1.667	1.667	1.667	2.000	.333	1.667	8.000	23.333	2.917

SEPTEMBER 1961

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH		MOD. JULIAN DAY		AP												MAGNETIC CHARACTER	
DAY	YEAR	DAY	YEAR	1	2	3	4	5	6	7	8	AP	AVG	AP	AP		
1	37543	244	32	39	32	32	32	9	18	32	32	32	28.250	1.2			
2	37544	245	9	7	15	32	32	12	12	5	12	13.000	.8				
3	37545	246	15	22	18	15	15	5	6	7	5	11.625	.6				
4	37546	247	3	4	9	7	7	6	2	2	9	5.250	.3				
5	37547	248	22	15	12	5	7	7	7	12	12	11.500	.6				
6	37548	249	5	12	3	5	5	5	3	2	2	4.625	.1				
7	37549	250	3	4	5	3	3	2	3	4	4	3.500	.0				
8	37550	251	2	4	3	3	3	4	5	4	5	3.500	.0				
9	37551	252	4	5	18	22	22	5	5	3	6	8.500	.5				
10	37552	253	12	4	3	7	7	6	9	6	7	6.750	.4				
11	37553	254	4	9	5	9	9	9	15	15	27	11.625	.7				
12	37554	255	9	32	48	15	15	9	4	4	15	17.000	.8				
13	37555	256	6	7	4	3	3	2	12	12	15	7.625	.5				
14	37556	257	15	27	22	22	22	80	9	18	32	20.125	1.3				
15	37557	258	12	5	9	6	6	7	3	2	5	6.125	.3				
16	37558	259	7	7	5	7	7	12	5	7	9	7.375	.4				
17	37559	260	27	32	7	7	7	5	5	5	2	11.250	.5				
18	37560	261	7	18	3	4	4	7	12	3	2	7.000	.2				
19	37561	262	2	5	2	2	2	5	2	2	2	2.750	.0				
20	37562	263	6	9	12	5	5	6	12	15	9	9.250	.5				
21	37563	264	2	2	3	3	3	2	3	3	2	2.500	.0				
22	37564	265	2	3	3	4	4	12	7	7	6	5.500	.3				
23	37565	266	3	0	0	3	3	3	3	4	4	2.500	.1				
24	37566	267	5	5	12	56	00	30	48	48	48	41.750	1.5				
25	37567	268	48	56	80	27	22	18	12	15	15	34.750	1.3				
26	37568	269	18	7	9	9	9	18	32	18	22	16.625	.9				
27	37569	270	22	39	32	32	39	32	27	7	7	25.625	1.1				
28	37570	271	5	2	3	3	3	2	2	5	15	4.625	.2				
29	37571	272	7	7	6	4	4	5	7	5	4	5.625	.2				
30	37572	273	7	15	6	6	6	7	2	39	207	36.125	1.3				

SEPTEMBER 1961

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			37543	244	1	110.0	109.4	112.4	113.3	1	51	61.7	63.4	69.4																		
			37544	245	1	110.0	110.1	112.1	113.3	1	53	63.2	63.0	69.1																		
			37545	246	1	117.0	110.8	111.7	113.2	1	54	64.7	62.4	68.0																		
			37546	247	1	118.0	111.3	111.4	113.1	1	55	65.4	61.6	67.9																		
			37547	248	1	114.0	111.3	110.9	112.9	1	55	65.2	61.1	67.0																		
			37548	249	1	112.0	110.9	110.4	112.5	1	57	64.2	60.0	66.2																		
			37549	250	1	115.0	110.4	110.1	112.3	1	51	62.1	59.0	65.2																		
			37550	251	1	117.0	110.0	109.6	112.1	1	33	59.5	57.0	64.2																		
			37551	252	1	126.0	109.9	109.6	112.0	1	45	57.3	56.9	63.4																		
			37552	253	1	130.0	110.0	109.6	112.0	1	57	55.6	56.4	62.5																		
			37553	254	1	127.0	110.1	109.6	111.9	1	54	53.6	55.9	61.6																		
			37554	255	1	130.0	110.6	109.7	111.9	1	62	52.3	55.4	61.2																		
			37555	256	1	130.0	111.0	109.9	112.0	1	82	52.1	55.4	61.1																		
			37556	257	1	137.0	111.7	110.3	112.4	1	109	53.6	56.0	61.6																		
			37557	258	1	135.0	112.6	110.6	112.7	1	114	55.1	56.6	62.3																		
			37558	259	1	133.0	113.4	110.9	113.1	1	102	57.0	57.1	63.0																		
			37559	260	1	124.0	114.2	111.0	113.5	1	84	58.4	57.4	63.5																		
			37560	261	1	115.0	114.6	111.0	113.6	1	73	59.7	57.6	63.7																		
			37561	262	1	108.0	115.0	110.9	113.7	1	70	61.0	58.0	63.8																		
			37562	263	1	101.0	115.1	110.9	113.7	1	46	61.4	58.0	63.6																		
			37563	264	1	96.0	115.3	110.7	113.6	1	41	61.1	58.2	63.3																		
			37564	265	1	92.0	115.1	110.7	113.5	1	40	60.9	58.4	63.0																		
			37565	266	1	90.0	115.0	110.7	113.3	1	43	60.5	58.6	62.7																		
			37566	267	1	97.0	114.9	110.8	113.2	1	74	61.9	59.2	63.1																		
			37567	268	1	97.0	114.6	111.0	113.1	1	83	63.0	60.4	63.5																		
			37568	269	1	78.0	114.3	111.1	113.0	1	74	63.6	61.1	63.7																		
			37569	270	1	96.0	113.9	111.3	112.9	1	67	64.0	62.2	63.6																		
			37570	271	1	96.0	113.4	111.4	112.7	1	69	64.7	63.2	63.8																		
			37571	272	1	102.0	113.1	111.6	112.4	1	58	64.9	64.1	63.6																		
			37572	273	1	100.0	112.4	111.6	112.0	1	52	64.8	64.8	63.2																		

MONTHLY AVERAGE 112.4  
MONTHLY SMOOTHED 102.3

63.6  
52.3

OCTOBER 1961

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	KP	3	KP	4	KP	5	KP	6	KP	7	KP	8	SUM KP	AVG. KP
1	37573 274	8.667	8.333	7.000	7.667	4.667	2.000	2.000	2.333	42.667	5.333							
2	37574 275	.667	1.000	1.333	1.333	1.667	2.667	2.000	.333	11.000	1.375							
3	37575 276	1.000	.333	1.000	1.333	2.000	2.000	1.667	1.000	10.333	1.292							
4	37576 277	.667	1.000	.333	1.333	2.667	2.000	1.667	3.000	12.667	1.583							
5	37577 278	2.333	.667	1.000	1.333	.333	.000	1.000	.333	7.000	.875							
6	37578 279	.667	.333	1.333	1.667	1.333	1.667	2.000	1.667	10.667	1.333							
7	37579 280	3.333	2.333	1.667	1.667	1.667	.000	.333	.667	11.667	1.458							
8	37580 281	.000	1.667	3.000	2.333	1.000	1.667	.667	.667	11.000	1.375							
9	37581 282	1.667	2.000	1.000	.667	.333	.000	.000	.000	5.667	.708							
10	37582 283	.333	.333	.333	.000	.333	.333	1.333	1.333	4.333	.542							
11	37583 284	1.333	1.667	2.667	3.333	3.000	1.667	3.333	2.667	19.667	2.458							
12	37584 285	5.000	4.333	4.000	2.667	2.667	3.333	1.667	2.333	26.000	3.250							
13	37585 286	2.333	3.333	3.667	2.667	1.000	2.667	1.333	2.667	20.667	2.583							
14	37586 287	3.333	1.333	2.000	2.000	2.333	.333	.000	.667	12.000	1.500							
15	37587 288	.667	.333	.333	1.000	.333	1.000	1.333	.333	5.333	.667							
16	37588 289	.000	.000	.333	.333	.333	.000	.000	.000	1.000	.125							
17	37589 290	.000	.000	.000	.000	.000	.000	.000	2.000	2.000	.250							
18	37590 291	.333	1.000	1.000	.333	.667	.667	.667	.667	5.333	.637							
19	37591 292	2.000	2.333	1.333	1.000	.667	.333	1.333	2.333	11.333	1.417							
20	37592 293	5.333	4.667	4.333	1.667	.333	1.000	.667	.333	18.333	2.292							
21	37593 294	1.667	.667	.667	2.000	2.333	2.333	3.000	3.000	15.000	1.875							
22	37594 295	1.667	1.667	1.000	2.000	1.667	1.667	.333	.667	10.667	1.333							
23	37595 296	.333	.667	1.000	1.000	.333	2.000	2.000	3.000	10.333	1.292							
24	37596 297	1.667	2.667	1.667	1.667	1.000	.333	.667	.333	10.000	1.250							
25	37597 298	1.000	.667	1.000	1.000	2.333	2.667	2.667	3.000	14.333	1.792							
26	37598 299	2.667	3.667	5.000	3.333	3.000	3.333	5.333	5.333	31.667	3.958							
27	37599 300	4.333	5.333	3.667	4.333	3.000	3.000	4.000	4.667	32.333	4.042							
28	37600 301	2.333	2.333	5.000	6.333	8.000	6.000	8.667	7.333	48.000	6.000							
29	37601 302	5.667	5.333	6.000	4.000	2.000	1.333	.667	2.333	27.333	3.417							
30	37602 303	.333	.000	1.667	2.667	2.000	3.000	1.000	1.333	12.000	1.500							
31	37603 304	1.000	1.000	3.333	1.000	1.333	.333	.333	.333	8.667	1.083							

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	Avg	MAGNETIC CHARACTER
1	37573	274	300	236	132	179	39	7	7	7	9	9	113.625	1.8	
2	37574	275	3	4	5	5	6	12	7	7	2	2	5.500	.3	
3	37575	276	4	2	4	5	7	7	6	6	4	4	4.875	.2	
4	37576	277	3	4	2	5	12	7	7	6	15	15	6.750	.4	
5	37577	278	9	3	4	5	2	0	4	4	2	2	3.625	.1	
6	37578	279	3	2	5	6	5	6	7	7	6	6	5.000	.3	
7	37579	280	18	9	6	6	6	0	2	3	3	3	6.250	.3	
8	37580	281	0	6	15	9	4	6	3	3	3	3	5.750	.1	
9	37581	282	6	7	4	3	2	0	0	0	0	0	2.750	.0	
10	37582	283	2	2	2	0	2	2	2	5	5	5	2.500	.0	
11	37583	284	5	6	12	18	15	6	18	12	12	12	11.500	.8	
12	37584	285	40	32	27	12	12	18	6	6	9	9	20.500	1.0	
13	37585	286	9	32	22	12	4	12	5	12	13	13	13.500	.8	
14	37586	287	18	5	7	7	9	2	0	3	3	3	6.375	.4	
15	37587	288	3	2	2	4	2	4	5	2	2	2	3.900	.0	
16	37588	289	0	0	2	2	2	0	0	0	0	0	.750	.0	
17	37589	290	0	0	0	0	0	0	0	0	7	7	.875	.0	
18	37590	291	2	4	4	2	3	3	3	3	3	3	3.000	.0	
19	37591	292	7	9	5	4	3	2	5	9	9	9	5.500	.3	
20	37592	293	56	39	32	6	2	4	3	2	2	2	18.000	.8	
21	37593	294	6	3	3	7	9	9	15	15	15	15	7.625	.6	
22	37594	295	6	6	4	7	6	6	2	2	3	3	5.000	.2	
23	37595	296	2	3	4	4	2	7	7	15	15	15	5.500	.3	
24	37596	297	6	12	6	6	4	2	3	2	2	2	5.125	.1	
25	37597	298	4	3	4	4	9	12	12	15	15	15	7.875	.6	
26	37598	299	12	22	48	18	15	18	56	56	56	56	30.625	1.4	
27	37599	300	32	56	22	32	15	15	27	39	39	39	29.750	1.3	
28	37600	301	9	9	48	9	207	207	300	154	154	154	120.500	1.9	
29	37601	302	67	56	40	27	7	5	3	9	9	9	31.750	1.3	
30	37602	303	2	0	6	12	7	15	4	2	2	2	6.375	.3	
31	37603	304	4	4	18	4	5	2	2	2	2	2	5.125	.1	

OCTOBER 1961

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)-----1---RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	37573 274	1	98.0	111.7	111.5	111.5	1	45	64.4	64.9	62.6
2	37574 275	1	97.0	111.1	111.2	111.0	1	47	64.1	64.7	62.1
3	37575 276	1	97.0	110.5	110.7	110.5	1	58	64.2	64.2	61.4
4	37576 277	1	102.0	110.0	110.2	110.0	1	55	64.3	63.2	60.8
5	37577 278	1	106.0	109.7	109.8	109.8	1	48	64.9	62.2	60.1
6	37578 279	1	101.0	108.8	109.3	109.3	1	45	64.9	61.1	59.6
7	37579 280	1	99.0	107.6	108.8	108.9	1	43	64.4	60.0	59.1
8	37580 281	1	98.0	106.6	108.4	108.6	1	46	64.1	58.8	58.6
9	37581 282	1	107.0	105.7	108.1	108.4	1	47	63.5	57.9	58.1
10	37582 283	1	106.0	104.8	107.9	108.2	1	53	62.4	57.3	57.7
11	37583 284	1	107.0	103.7	107.7	108.1	1	58	60.6	57.1	57.5
12	37584 285	1	111.0	102.8	107.7	108.0	1	76	59.1	57.1	57.5
13	37585 286	1	111.0	102.0	107.7	107.9	1	47	57.1	57.0	57.1
14	37586 287	1	105.0	101.3	107.7	107.8	1	44	55.6	57.0	56.8
15	37587 288	1	106.0	101.0	107.8	107.6	1	53	54.9	57.3	56.7
16	37588 289	1	100.0	100.7	107.8	107.5	1	46	54.0	57.5	57.6
17	37589 290	1	97.0	100.5	107.8	107.4	1	39	53.7	57.6	56.6
18	37590 291	1	95.0	100.5	107.9	107.3	1	44	53.9	57.5	56.8
19	37591 292	1	95.0	100.6	107.9	107.3	1	52	54.3	57.6	57.0
20	37592 293	1	93.0	100.7	107.8	107.4	1	38	54.1	57.3	57.1
21	37593 294	1	92.0	100.5	107.7	107.4	1	47	53.1	57.5	57.2
22	37594 295	1	89.0	100.2	107.4	107.4	1	33	51.3	57.1	57.4
23	37595 296	1	85.0	99.7	107.0	107.3	1	16	49.1	56.3	57.3
24	37596 297	1	85.0	99.3	106.6	107.3	1	17	47.3	55.6	57.2
25	37597 298	1	83.0	98.9	106.1	107.2	1	16	45.3	55.0	57.2
26	37598 299	1	83.0	98.1	105.6	107.1	1	13	43.6	54.3	57.2
27	37599 300	1	84.0	97.6	105.0	106.9	1	0	42.0	53.4	57.2
28	37600 301	1	86.0	97.1	104.4	106.7	1	0	40.6	52.5	56.8
29	37601 302	1	85.0	96.7	103.9	106.3	1	9	39.2	51.7	56.2
30	37602 303	1	87.0	96.3	103.4	105.9	1	9	37.4	50.8	55.3
31	37603 304	1	86.0	95.7	102.9	105.4	1	8	35.7	50.0	54.0

MONTHLY AVERAGE 96.1  
MONTHLY SMOOTHED 101.7

37.7  
51.4



NOVEMBER 1961

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	37604 305	1.000	2.333	1.667	1.667	1.333	.333	1.667	.667	10.667	1.333
2	37605 306	.333	.000	1.667	2.000	2.000	1.000	.667	.667	8.333	1.042
3	37606 307	1.667	2.667	2.000	1.000	.333	.000	.000	1.333	9.000	1.125
4	37607 308	.667	.333	.333	.333	.333	.667	1.667	3.000	7.333	.917
5	37608 309	3.000	3.333	3.000	3.000	4.667	3.000	2.333	4.000	26.333	3.292
6	37609 310	2.667	4.000	4.667	4.000	2.333	.667	.667	2.000	21.000	2.625
7	37610 311	2.667	3.000	4.333	5.000	4.333	5.333	6.333	5.000	36.000	4.500
8	37611 312	5.667	4.333	4.000	2.000	3.333	.667	3.333	3.000	26.333	3.222
9	37612 313	3.333	2.000	3.667	2.333	2.333	2.333	3.000	1.000	20.000	2.500
10	37613 314	1.667	2.667	1.000	1.000	1.000	1.000	.333	.333	9.000	1.125
11	37614 315	.000	.000	.667	.333	.333	1.000	.667	2.333	5.333	.667
12	37615 316	3.333	3.000	3.333	2.333	3.000	3.333	2.000	3.333	23.667	2.958
13	37616 317	2.667	1.333	.667	.667	.000	.000	.667	1.333	7.333	.917
14	37617 318	2.000	4.000	4.667	2.000	1.000	1.333	2.000	1.667	18.667	2.333
15	37618 319	.000	.667	.000	.333	.000	.000	.000	1.000	2.000	.250
16	37619 320	.000	.000	.000	.333	.333	.000	.667	3.000	4.333	.542
17	37620 321	2.333	1.667	1.000	.667	4.000	4.333	2.333	4.667	21.000	2.625
18	37621 322	5.000	4.000	6.333	5.667	5.000	4.667	5.000	3.333	39.000	4.875
19	37622 323	4.333	3.333	3.333	1.667	2.333	.333	.333	.333	16.000	2.000
20	37623 324	.333	2.333	3.667	2.667	3.667	3.000	2.333	2.667	20.667	2.583
21	37624 325	3.000	3.000	1.333	1.333	.333	1.000	1.333	2.000	13.333	1.667
22	37625 326	2.000	.000	.667	1.000	.667	.667	.000	.000	5.000	.625
23	37626 327	.000	.000	.000	.000	.667	.667	.667	.667	2.667	.333
24	37627 328	.667	.333	.667	.333	.333	1.000	.667	1.000	5.000	.625
25	37628 329	.667	1.000	2.000	2.333	1.000	1.000	.667	.333	9.000	1.125
26	37629 330	.000	1.000	1.333	2.333	1.000	1.000	1.333	2.000	10.000	1.250
27	37630 331	2.000	.333	.667	.667	1.000	1.333	1.667	.000	7.667	.958
28	37631 332	.000	.333	.000	.333	.333	1.333	2.000	.667	5.000	.625
29	37632 333	1.333	1.667	1.000	.333	.333	.333	.000	.667	5.667	.708
30	37633 334	.667	.000	1.000	.000	.333	.333	.667	.667	3.667	.458

NOVEMBER 1961

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37604	305	4	9	6	6	5	2	6	3	3	5.125			.3
2	37605	306	2	0	6	7	7	4	3	3	3	4.000			.1
3	37606	307	6	12	7	4	2	0	0	5	5	4.500			.2
4	37607	308	3	2	2	2	2	3	6	15	15	4.375			.3
5	37608	309	15	18	15	15	39	15	9	27	19.125				1.1
6	37609	310	12	27	39	27	9	3	3	7	15.875				.8
7	37610	311	12	15	32	48	32	56	94	48	42.125				1.6
8	37611	312	67	32	27	7	18	3	18	15	23.375				1.1
9	37612	313	18	7	22	9	9	9	15	4	11.625				.6
10	37613	314	6	12	4	4	4	4	2	2	4.750				.1
11	37614	315	0	0	3	2	2	4	3	9	2.875				.1
12	37615	316	18	15	18	9	15	18	7	18	14.750				.9
13	37616	317	12	5	3	3	0	0	3	5	3.875				.0
14	37617	318	7	27	39	7	4	5	7	6	12.750				.7
15	37618	319	0	3	0	2	0	0	0	4	1.125				.0
16	37619	320	0	0	0	2	2	0	3	15	2.750				.2
17	37620	321	9	6	4	3	27	32	9	39	16.125				1.0
18	37621	322	48	27	94	67	48	39	40	18	44.625				1.5
19	37622	323	32	18	16	6	9	2	2	2	11.125				.5
20	37623	324	2	9	22	12	22	15	9	12	12.875				.8
21	37624	325	15	15	5	5	2	4	5	7	7.250				.4
22	37625	326	7	0	3	4	3	3	0	0	2.500				.1
23	37626	327	0	0	0	0	3	3	3	3	1.500				.0
24	37627	328	3	2	3	2	2	4	3	4	2.375				.0
25	37628	329	3	4	7	9	4	4	3	2	4.500				.1
26	37629	330	0	4	5	9	4	4	5	7	4.750				.2
27	37630	331	7	2	3	3	4	5	6	0	3.750				.1
28	37631	332	0	2	0	2	2	5	7	3	2.625				.1
29	37632	333	5	6	4	2	2	2	0	3	3.000				.0
30	37633	334	3	0	4	0	2	2	3	3	2.125				.0

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. DAY	SOLAR FLUX (10.7CM OTTAWA)				RELATIVE ZURICH SUNSPOT NUMBER					
JULIAN OF YEAR		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY					
1	37604	305	1	86.0	94.9	102.3	104.9	1	0	33.9	49.4	52.8
2	37605	306	1	83.0	94.2	101.5	104.3	1	0	32.2	48.6	51.5
3	37606	307	1	81.0	93.6	100.6	103.7	1	0	30.6	47.5	50.2
4	37607	308	1	82.0	93.0	99.8	103.2	1	13	29.3	46.7	47.0
5	37608	309	1	87.0	92.2	99.0	102.8	1	19	28.3	45.9	48.0
6	37609	310	1	87.0	91.5	98.2	102.4	1	25	27.2	44.8	47.3
7	37610	311	1	93.0	91.0	97.4	102.1	1	54	26.9	43.7	47.0
8	37611	312	1	100.0	90.6	96.7	102.0	1	54	26.0	42.6	46.8
9	37612	313	1	99.0	90.0	96.1	101.9	1	76	27.1	42.1	47.1
10	37613	314	1	102.0	90.0	95.7	101.8	1	67	28.0	41.8	47.3
11	37614	315	1	100.0	89.8	95.4	101.8	1	53	28.0	41.4	47.5
12	37615	316	1	95.0	89.6	95.1	101.8	1	50	28.1	41.1	47.7
13	37616	317	1	92.0	89.4	95.0	101.7	1	49	28.5	41.1	47.9
14	37617	318	1	86.0	89.1	94.8	101.6	1	48	28.6	41.2	47.9
15	37618	319	1	85.0	88.7	94.7	101.5	1	47	28.4	41.4	47.9
16	37619	320	1	87.0	88.5	94.6	101.4	1	31	28.2	41.1	47.6
17	37620	321	1	84.0	88.2	94.4	101.4	1	11	26.9	40.0	47.3
18	37621	322	1	60.0	87.9	94.1	100.9	1	17	26.3	38.8	46.8
19	37622	323	1	78.0	87.6	93.7	100.6	1	10	26.0	37.6	46.2
20	37623	324	1	81.0	87.5	93.4	100.2	1	15	26.0	36.6	45.8
21	37624	325	1	84.0	87.5	93.2	99.9	1	26	26.3	35.8	45.4
22	37625	326	1	85.0	87.6	92.9	99.6	1	24	26.7	35.2	45.1
23	37626	327	1	88.0	87.7	92.6	99.2	1	12	26.9	34.4	44.6
24	37627	328	1	88.0	87.8	92.5	98.9	1	18	27.3	33.9	44.1
25	37628	329	1	93.0	88.1	92.4	98.6	1	29	28.0	33.6	43.8
26	37629	330	1	94.0	88.4	92.3	98.4	1	36	29.0	33.2	43.5
27	37630	331	1	96.0	88.7	92.2	98.2	1	37	30.1	32.9	43.4
28	37631	332	1	99.0	89.2	92.1	97.9	1	38	31.5	32.7	43.4
29	37632	333	1	99.0	89.8	92.0	97.6	1	53	33.4	32.8	43.5
30	37633	334	1	105.0	90.7	92.1	97.3	1	75	36.2	33.4	43.7

MONTHLY AVERAGE	90.0
MONTHLY SMOOTHED	101.3

$$\begin{array}{r} 32.6 \\ 50.5 \\ \hline \end{array}$$

DECEMBER 1961

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37634	335	.333	1.667	4.333	5.000	5.667	7.667	6.000	4.667	5.000	34.667	4.333
2	37635	336	5.333	4.667	4.000	5.667	5.333	5.333	6.333	6.333	6.333	44.000	5.500
3	37636	337	6.667	5.667	6.333	5.000	5.000	5.000	3.000	3.667	4.333	39.667	4.958
4	37637	338	2.333	2.333	2.333	2.667	2.667	2.333	3.000	1.000	2.333	18.333	2.292
5	37638	339	1.333	2.000	1.667	.000	.000	2.333	4.333	3.667	2.333	17.667	2.208
6	37639	340	3.000	3.667	1.000	1.000	3.333	3.333	4.333	3.333	2.000	21.667	2.708
7	37640	341	2.000	1.667	2.000	2.667	3.333	.000	.000	.000	.000	11.667	1.453
8	37641	342	.000	.000	.333	1.000	.333	.333	.333	.333	.000	2.333	.292
9	37642	343	.000	.667	1.000	1.333	1.000	1.000	.667	1.333	.667	6.667	.833
10	37643	344	.000	1.333	.333	2.000	2.000	1.667	2.000	2.333	2.333	12.000	1.500
11	37644	345	3.000	2.667	3.667	3.000	1.333	1.333	3.333	3.000	2.333	22.333	2.792
12	37645	346	3.000	3.333	.000	.333	.267	.267	1.000	.333	.000	6.667	1.083
13	37646	347	.000	.000	.000	1.000	.333	.333	1.333	1.333	3.000	7.000	.875
14	37647	348	2.667	.667	.667	.333	.333	.333	.667	.667	2.000	8.000	1.000
15	37648	349	1.000	2.667	1.667	1.667	1.667	1.667	.667	.333	3.000	12.667	1.583
16	37649	350	.667	1.333	1.333	1.000	1.000	.667	.333	.333	1.667	7.333	.917
17	37650	351	2.333	1.333	1.000	1.000	1.000	.000	.333	.333	.667	7.000	.875
18	37651	352	1.333	1.333	.333	.333	.333	.000	.000	.000	.333	3.667	.458
19	37652	353	.000	.333	.000	.000	.000	.000	1.000	.333	.000	1.667	.208
20	37653	354	.333	.000	1.000	1.333	1.000	1.000	.667	.667	1.000	6.000	.750
21	37654	355	.333	2.000	.667	.667	.667	.000	.000	.667	1.333	5.667	.708
22	37655	356	1.000	1.667	.333	1.000	1.000	2.667	2.000	1.333	1.000	11.000	1.375
23	37656	357	1.667	2.667	2.667	2.667	2.000	3.333	1.333	1.000	4.333	19.000	2.375
24	37657	358	3.000	2.333	1.667	2.333	3.000	3.000	2.667	1.667	1.667	18.333	2.292
25	37658	359	.333	.000	.000	.000	.667	.000	.667	.333	.667	2.667	.333
26	37659	360	.333	1.333	1.000	1.000	1.000	1.333	.667	.667	1.333	7.667	.958
27	37660	361	3.333	3.000	2.333	1.667	2.333	2.333	1.333	1.667	1.000	16.667	2.083
28	37661	362	1.667	2.000	2.000	4.000	4.000	4.000	4.000	3.000	4.000	24.667	3.083
29	37662	363	4.000	2.667	1.333	2.333	2.333	2.000	2.333	1.333	4.333	20.333	2.542
30	37663	364	2.667	4.000	2.333	3.333	3.333	2.667	4.000	2.333	3.000	24.333	3.042
31	37664	365	1.667	1.667	1.333	1.333	1.333	1.333	1.667	3.333	1.333	13.667	1.708

DECEMBER 1961

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY YEAR	AP												MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	9	10	11	12	
1	37634	335	2	6	32	48	179	80	39	48	54.250	1.7		
2	37635	336	56	39	27	67	56	94	94	94	65.875	1.8		
3	37636	337	111	67	94	48	48	15	22	32	54.625	1.6		
4	37637	338	9	9	12	9	15	4	4	9	9.500	.6		
5	37638	339	5	7	6	0	9	32	22	9	11.250	.9		
6	37639	340	15	22	4	4	18	32	18	7	15.000	1.0		
7	37640	341	7	6	7	12	18	0	0	0	6.250	.3		
8	37641	342	0	0	2	4	2	2	2	0	1.500	.0		
9	37642	343	0	3	4	5	4	3	5	3	3.375	.1		
10	37643	344	0	5	2	7	6	7	9	9	5.625	.4		
11	37644	345	15	12	22	15	5	18	15	9	13.875	.8		
12	37645	346	15	18	0	2	3	4	2	0	5.500	.1		
13	37646	347	0	0	0	4	2	5	5	15	3.875	.2		
14	37647	348	12	3	3	2	2	3	3	7	4.375	.1		
15	37648	349	4	12	6	6	6	3	2	15	6.750	.4		
16	37649	350	3	5	5	4	3	2	2	6	3.750	.2		
17	37650	351	9	5	4	4	0	2	2	3	3.625	.0		
18	37651	352	5	5	2	2	0	0	0	2	2.000	.0		
19	37652	353	0	2	0	0	0	4	2	0	1.000	.0		
20	37653	354	2	0	4	5	4	3	3	4	3.125	.1		
21	37654	355	2	7	3	3	0	0	3	5	2.875	.1		
22	37655	356	4	6	2	4	12	7	5	4	5.500	.3		
23	37656	357	6	12	12	7	13	5	4	32	12.000	.9		
24	37657	358	15	9	6	9	15	12	6	6	9.750	.5		
25	37658	359	2	0	0	3	0	3	2	3	1.625	.0		
26	37659	360	2	5	4	4	5	3	3	5	3.875	.1		
27	37660	361	18	15	9	6	9	5	4	4	9.000	.7		
28	37661	362	6	7	7	27	27	27	15	27	17.875	1.2		
29	37662	363	27	12	5	9	7	9	5	32	13.250	.8		
30	37663	364	12	27	9	18	12	27	9	15	16.125	.8		
31	37664	365	6	6	5	5	5	6	18	5	7.000	.4		

DECEMBER 1961

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1			2-----RELATIVE ZURICH SUNSPOT NUMBER-----2			3-----RUNNING MEANS-----3				
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	37634	335	1	106.0	91.6	92.3	97.0	1	82	38.9	34.1	44.1
2	37635	336	1	109.0	92.4	92.3	96.8	1	80	41.1	34.7	44.3
3	37636	337	1	112.0	93.3	92.4	96.6	1	77	43.1	35.1	44.2
4	37637	338	1	106.0	93.8	92.4	96.2	1	67	43.8	35.3	43.7
5	37638	339	1	102.0	93.9	92.2	95.8	1	55	43.8	34.9	43.0
6	37639	340	1	102.0	94.0	92.1	95.4	1	38	42.4	34.8	42.2
7	37640	341	1	95.0	93.7	91.9	95.0	1	31	41.1	34.5	41.6
8	37641	342	1	97.0	93.6	91.7	94.8	1	31	40.3	34.1	41.0
9	37642	343	1	93.0	93.6	91.6	94.6	1	31	39.6	33.8	40.6
10	37643	344	1	88.0	93.4	91.4	94.5	1	14	38.3	33.4	40.2
11	37644	345	1	83.0	93.3	91.2	94.3	1	0	36.5	32.6	39.7
12	37645	346	1	79.0	93.1	90.9	94.1	1	0	34.7	31.6	39.2
13	37646	347	1	83.0	92.9	90.7	94.0	1	0	33.6	30.9	38.6
14	37647	348	1	82.0	92.9	90.5	93.9	1	10	33.6	30.2	37.8
15	37648	349	1	82.0	92.9	90.4	93.7	1	8	33.2	29.7	36.9
16	37649	350	1	82.0	93.1	90.4	93.5	1	7	33.1	29.6	36.1
17	37650	351	1	80.0	93.0	90.3	93.3	1	7	32.8	29.4	35.3
18	37651	352	1	82.0	93.0	90.2	93.1	1	10	32.2	29.3	34.6
19	37652	353	1	83.0	92.9	90.2	92.9	1	12	31.8	29.3	34.0
20	37653	354	1	89.0	92.9	90.3	92.7	1	21	32.1	29.5	33.7
21	37654	355	1	91.0	93.0	90.4	92.7	1	21	32.2	29.7	33.4
22	37655	356	1	100.0	93.3	90.7	92.7	1	47	32.9	30.4	33.4
23	37656	357	1	102.0	93.6	91.0	92.8	1	56	33.6	31.3	33.3
24	37657	358	1	105.0	93.9	91.3	92.8	1	77	35.1	32.6	33.6
25	37658	359	1	104.0	94.1	91.7	92.7	1	94	37.2	34.3	34.2
26	37659	360	1	103.0	94.3	92.0	92.8	1	80	38.2	35.8	34.6
27	37660	361	1	104.0	94.2	92.5	92.8	1	70	38.0	37.1	35.0
28	37661	362	1	99.0	94.0	92.8	92.8	1	74	37.7	38.3	35.3
29	37662	363	1	99.0	93.6	93.0	92.7	1	55	36.8	39.0	35.4
30	37663	364	1	75.0	93.0	93.1	92.6	1	45	35.6	39.3	35.3
31	37664	365	1	94.0	92.5	93.2	92.4	1	38	34.5	39.1	35.0

MONTHLY AVERAGE 94.5  
MONTHLY SMOOTHED 100.4

39.9  
48.7

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	KP								SUM KP	AVG. KP		
			1	2	3	4	5	6	7	8				
1	37665	1	1.667	3.333	1.000	.667	.667	.667	.667	.667	.667	1.667	10.000	1.250
2	37666	2	2.667	2.333	3.000	3.333	1.667	1.667	1.667	1.667	1.000	1.000	16.667	2.083
3	37667	3	.000	.000	.000	.667	.667	.667	.667	.667	1.000	.667	3.333	.417
4	37668	4	.333	.000	.333	.667	.667	.667	.667	.667	.000	.000	1.333	.167
5	37669	5	.000	.000	.000	.333	.333	.333	.333	.333	.333	.333	1.333	.167
6	37670	6	.333	2.000	.333	1.000	.333	.333	.333	1.000	1.000	.000	6.000	.750
7	37671	7	.000	.000	.333	.333	.333	.667	1.000	1.000	1.333	1.667	5.333	.667
8	37672	8	.667	.667	.667	1.000	1.000	1.000	1.667	1.667	.667	.333	6.667	.833
9	37673	9	1.000	1.333	.000	1.333	2.000	2.000	2.333	2.667	1.667	1.667	12.333	1.542
10	37674	10	3.667	6.333	4.333	6.000	5.333	5.333	5.333	5.000	4.333	40.333	5.042	5.042
11	37675	11	3.667	3.667	3.000	2.000	2.000	2.000	2.333	2.333	1.667	20.667	2.583	2.583
12	37676	12	1.667	1.667	1.333	.667	.667	.333	.333	.667	2.000	8.667	1.083	1.083
13	37677	13	2.000	2.333	1.333	1.000	1.000	1.000	.667	1.000	.333	9.667	1.208	1.208
14	37678	14	.333	.333	1.000	1.000	1.000	1.667	3.667	3.333	4.000	15.333	1.917	1.917
15	37679	15	2.667	2.333	2.667	2.667	2.667	1.667	1.667	2.000	3.333	18.333	2.292	2.292
16	37680	16	2.333	2.000	3.000	2.667	2.667	3.667	2.333	1.667	2.667	20.333	2.542	2.542
17	37681	17	1.667	1.667	.667	.667	.447	1.000	1.000	1.000	.667	8.333	1.042	1.042
18	37682	18	.000	.333	.333	.667	.667	.667	1.667	.667	.000	4.333	.542	.542
19	37683	19	2.333	2.333	3.333	2.000	.667	3.667	4.333	3.667	1.000	22.667	2.633	2.633
20	37684	20	1.000	1.000	1.667	.667	.667	.333	.667	2.000	1.000	8.333	1.042	1.042
21	37685	21	2.000	1.333	2.000	2.333	3.333	3.333	1.000	.333	2.000	14.333	1.772	1.772
22	37686	22	.333	.333	.667	.333	.333	.000	.000	.000	.000	1.667	.208	.208
23	37687	23	.000	.000	.000	.333	.333	.333	.333	.000	.333	1.333	.167	.167
24	37688	24	.000	.000	.000	.000	.000	.000	.667	.667	.667	1.667	.208	.208
25	37689	25	.000	.667	2.000	1.667	1.667	.333	2.000	.333	2.000	9.333	1.167	1.167
26	37690	26	3.000	1.333	1.333	2.000	2.000	2.000	2.333	2.333	2.000	16.333	2.042	2.042
27	37691	27	2.333	3.000	2.667	3.333	3.333	1.667	1.000	2.000	2.667	18.667	2.333	2.333
28	37692	28	.667	.667	1.667	1.667	.667	.000	.667	.667	.667	6.000	.750	.750
29	37693	29	.667	2.667	1.333	1.667	1.667	3.000	1.333	.333	2.000	13.000	1.625	1.625
30	37694	30	2.667	2.333	2.333	1.667	1.667	2.000	2.000	.667	1.333	15.000	1.875	1.875
31	37695	31	1.000	.667	.333	.000	.000	.000	.000	.000	.000	2.000	.250	.250

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

257



## DAILY SOLAR FLUX AND RELATIVE ZÜRICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. DAY	SOLAR FLUX (10.7CM OTTAWA)										RELATIVE ZURICH SUNSPOT NUMBER									
JULIAN OF YEAR			RUNNING MEANS					DAILY					RUNNING MEANS					DAILY				
			27-DAY	54-DAY	81-DAY	1	27-DAY	54-DAY	81-DAY	1	27-DAY	54-DAY	81-DAY	1	27-DAY	54-DAY	81-DAY					
1	37665	1	91.0	92.1	93.0	92.2	1	29	33.6	38.7	34.5											
2	37666	2	87.0	91.6	92.8	91.9	1	25	33.1	37.7	34.2											
3	37667	3	84.0	91.1	92.4	91.6	1	20	32.7	36.9	33.9											
4	37668	4	82.0	90.6	92.1	91.3	1	10	31.9	36.1	33.4											
5	37669	5	79.0	90.1	91.8	91.1	1	18	31.4	35.5	33.0											
6	37670	6	78.0	89.7	91.6	90.9	1	13	31.4	34.8	32.7											
7	37671	7	78.0	89.5	91.4	90.6	1	11	31.8	34.1	32.3											
8	37672	8	75.0	89.4	91.2	90.4	1	10	32.1	33.4	31.8											
9	37673	9	75.0	89.1	91.0	90.2	1	0	32.4	33.0	31.4											
10	37674	10	76.0	88.9	90.9	90.0	1	15	32.6	33.1	31.0											
11	37675	11	76.0	88.6	90.8	89.8	1	0	32.3	32.8	30.6											
12	37676	12	78.0	88.5	90.8	89.7	1	10	32.4	32.9	30.5											
13	37677	13	79.0	88.4	90.7	89.7	1	20	32.9	32.9	30.6											
14	37678	14	88.0	88.7	90.8	89.7	1	31	33.7	33.0	30.8											
15	37679	15	80.0	88.8	90.8	89.8	1	24	34.1	33.0	30.9											
16	37680	16	85.0	88.6	90.8	89.8	1	24	34.3	33.2	31.1											
17	37681	17	87.0	88.5	90.8	89.8	1	19	34.2	33.2	31.2											
18	37682	18	95.0	88.3	90.8	89.7	1	25	33.4	33.1	31.4											
19	37683	19	99.0	88.2	90.9	90.0	1	29	32.4	33.0	31.7											
20	37684	20	108.0	88.3	91.1	90.3	1	34	30.8	32.9	32.0											
21	37685	21	113.0	88.6	91.4	90.7	1	42	28.9	33.0	32.5											
22	37686	22	112.0	89.0	91.6	91.0	1	63	28.2	33.2	33.3											
23	37687	23	117.0	89.4	91.8	91.5	1	82	28.7	33.3	34.3											
24	37688	24	115.0	90.0	92.0	91.9	1	83	29.0	33.4	35.2											
25	37689	25	116.0	90.7	92.1	92.2	1	84	30.2	33.5	36.0											
26	37690	26	116.0	91.4	92.2	92.6	1	86	31.7	33.7	36.8											
27	37691	27	115.0	92.2	92.4	92.9	1	92	33.7	34.1	37.3											
28	37692	28	116.0	93.1	92.6	93.0	1	85	35.8	34.7	37.7											
29	37693	29	110.0	94.0	92.8	93.2	1	66	37.3	35.2	37.6											
30	37694	30	102.0	94.7	92.9	93.2	1	66	39.0	35.9	37.6											
31	37695	31	103.0	95.4	93.0	93.2	1	71	41.3	36.6	37.8											

MONTHLY AVERAGE	94.2
MONTHLY SMOOTHED	98.1

30.7  
45.2

FEBRUARY 1962

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37696 32	.000	.333	.333	.000	.000	.333	.333	.333	.667	2.000	.250
2	37697 33	2.667	1.000	1.000	.333	.333	.333	.333	1.333	1.333	8.333	1.042
3	37698 34	1.000	1.333	1.333	.333	.333	.667	1.667	1.000	.667	8.000	1.000
4	37699 35	1.333	1.667	1.667	1.667	3.333	5.000	4.333	3.667	3.667	24.667	3.083
5	37700 36	2.667	3.000	3.000	.333	.667	1.667	1.667	1.333	1.333	12.667	1.583
6	37701 37	.333	1.000	.667	1.000	.667	.667	.667	1.667	3.667	9.667	1.208
7	37702 38	4.333	3.333	3.667	4.000	3.333	4.000	2.667	2.667	1.000	26.333	3.292
8	37703 39	.000	.667	.667	1.667	1.667	1.667	.667	.333	.667	6.333	.792
9	37704 40	3.000	1.000	1.000	1.000	2.000	2.000	.667	.667	1.000	10.333	1.292
10	37705 41	1.667	.667	.333	.333	1.000	1.000	.333	.667	.000	5.000	.625
11	37706 42	2.000	1.000	.333	2.667	2.667	1.667	1.667	4.000	4.333	18.667	2.333
12	37707 43	5.333	2.667	3.000	2.667	2.000	2.667	2.667	4.000	3.667	25.000	3.250
13	37708 44	2.333	3.333	1.667	3.333	2.667	2.667	2.667	2.333	3.667	22.000	2.750
14	37709 45	3.667	3.000	2.000	1.667	1.667	1.667	2.333	3.667	4.333	22.333	2.792
15	37710 46	2.000	3.333	1.467	2.000	1.000	1.000	3.667	4.000	2.000	19.667	2.458
16	37711 47	2.333	3.000	3.000	5.667	5.000	5.333	5.000	5.000	5.000	34.333	4.292
17	37712 48	4.000	3.333	4.333	3.000	3.000	1.333	1.333	3.333	1.333	21.000	2.625
18	37713 49	.333	.667	1.333	2.000	.667	1.000	1.000	3.333	1.667	11.000	1.375
19	37714 50	.000	.667	1.667	1.333	1.333	1.333	.333	.000	.333	5.667	.708
20	37715 51	.000	.000	1.333	1.333	1.333	1.667	.333	.333	1.333	6.333	.792
21	37716 52	.333	.000	2.000	1.000	1.000	3.000	3.333	2.000	1.333	13.000	1.625
22	37717 53	3.667	3.333	2.667	3.333	3.333	2.667	2.667	1.000	.667	20.667	2.583
23	37718 54	1.000	3.000	1.000	3.000	3.000	3.333	3.000	1.000	2.000	17.333	2.167
24	37719 55	1.000	2.333	2.333	2.333	2.333	2.333	2.333	3.000	1.333	17.000	2.125
25	37720 56	1.000	1.333	2.000	.667	.667	1.667	1.667	3.000	3.000	14.333	1.792
26	37721 57	3.000	1.333	1.333	2.333	2.333	3.333	4.667	4.000	3.333	23.333	2.917
27	37722 58	3.000	2.667	2.667	3.667	4.000	3.333	3.333	3.000	.667	23.000	2.875
28	37723 59	.000	.000	1.667	1.333	1.000	.667	.667	.333	.000	5.000	.625

FEBRUARY 1962

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37696	32	0	2	0	0	2	2	2	3	3	1.375			.0
2	37697	33	12	4	4	2	2	2	5	5	5	4.500			.1
3	37698	34	4	5	5	2	3	6	4	3	3	4.000			.1
4	37699	35	5	6	6	18	48	32	22	22	22	19.875			1.4
5	37700	36	12	15	2	3	6	6	5	5	5	6.750			.4
6	37701	37	2	4	3	4	3	3	6	22	22	5.875			.4
7	37702	38	32	18	22	27	18	27	12	4	4	20.000			1.1
8	37703	39	0	3	3	6	6	3	2	3	3	3.250			.1
9	37704	40	15	4	4	4	7	3	3	4	4	5.500			.1
10	37705	41	6	3	2	2	4	2	3	0	0	2.750			.0
11	37706	42	7	4	2	12	12	6	27	32	32	12.750			.9
12	37707	43	56	12	15	12	7	12	27	22	22	20.375			1.0
13	37708	44	4	18	6	18	12	12	9	22	22	13.250			.9
14	37709	45	22	15	7	6	6	9	22	32	32	14.875			.9
15	37710	46	7	18	6	7	4	22	27	7	7	12.250			.9
16	37711	47	9	15	15	67	48	56	48	48	48	38.250			1.5
17	37712	48	27	18	32	15	5	5	9	5	5	14.500			.8
18	37713	49	2	3	5	7	3	4	18	6	6	6.000			.4
19	37714	50	0	3	6	5	5	2	0	2	2	2.875			.0
20	37715	51	0	0	5	5	6	2	2	5	5	3.125			.0
21	37716	52	2	0	7	4	15	18	7	5	5	7.250			.4
22	37717	53	22	18	12	18	18	12	4	3	3	13.375			.8
23	37718	54	4	15	4	15	18	15	4	7	7	10.250			.6
24	37719	55	4	7	9	7	7	7	15	5	5	8.625			.6
25	37720	56	4	5	7	3	6	6	15	15	15	7.625			.5
26	37721	57	15	5	5	9	18	39	27	18	18	17.000			1.2
27	37722	58	15	12	12	22	27	18	15	3	3	15.500			1.0
28	37723	59	0	0	6	5	4	3	2	0	0	2.500			.0

FEBRUARY 1962

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. JULIAN DAY	DAY YEAR	1--SOLAR FLUX(10.7CM OTTAWA)	2--RELATIVE ZURICH SUNSPOT NUMBER	3--RUNNING MEANS	4--RUNNING MEANS	5--DAILY 27-DAY	6--DAILY 81-DAY	7--DAILY 27-DAY	8--DAILY 81-DAY	9--DAILY 27-DAY	10--DAILY 81-DAY
1	37696	32	111.0	96.6	93.4	93.4	1	76	43.4	37.4	38.1	
2	37697	33	104.0	97.6	93.6	93.6	1	59	45.1	38.3	38.3	
3	37698	34	102.0	98.5	94.0	93.8	1	57	46.9	39.3	38.4	
4	37699	35	104.0	99.6	94.5	94.0	1	48	48.3	40.2	38.5	
5	37700	36	93.0	100.2	94.6	94.1	1	43	49.6	41.0	38.9	
6	37701	37	86.0	100.6	94.7	94.1	1	39	50.4	41.5	39.1	
7	37702	38	93.0	100.9	94.7	94.1	1	36	51.8	42.1	39.3	
8	37703	39	82.0	101.0	94.7	94.2	1	27	52.4	42.4	39.3	
9	37704	40	83.0	101.1	94.8	94.2	1	15	52.2	42.6	39.3	
10	37705	41	81.0	100.9	94.8	94.2	1	14	51.6	42.6	39.2	
11	37706	42	82.0	100.7	94.8	94.1	1	19	51.4	42.8	39.1	
12	37707	43	81.0	100.6	94.6	94.0	1	8	50.8	42.5	39.1	
13	37708	44	85.0	100.5	94.5	94.0	1	9	50.4	42.3	39.0	
14	37709	45	84.0	100.1	94.2	93.9	1	20	50.3	41.8	38.8	
15	37710	46	83.0	99.5	93.9	93.8	1	22	50.0	41.2	38.7	
16	37711	47	86.0	98.7	93.5	93.6	1	15	49.3	40.0	38.4	
17	37712	48	87.0	97.7	93.2	93.5	1	22	48.6	39.7	38.2	
18	37713	49	91.0	97.0	93.0	93.4	1	28	47.3	37.7	37.9	
19	37714	50	109.0	96.7	93.1	93.4	1	29	45.3	37.0	37.3	
20	37715	51	108.0	96.4	93.2	93.5	1	53	44.2	36.6	37.0	
21	37716	52	115.0	96.4	93.5	93.5	1	65	43.3	36.8	36.8	
22	37717	53	121.0	96.6	94.0	93.7	1	72	42.8	37.3	36.7	
23	37718	54	136.0	97.3	94.8	94.0	1	108	43.4	38.6	37.2	
24	37719	55	134.0	98.0	95.6	94.4	1	124	44.9	40.3	38.1	
25	37720	56	130.0	98.7	96.4	94.8	1	103	46.2	41.8	38.9	
26	37721	57	129.0	99.7	97.2	95.2	1	95	47.3	43.2	39.7	
27	37722	58	137.0	101.0	98.2	95.7	1	108	48.7	45.0	40.6	
28	37723	59	122.0	101.4	99.0	96.0	1	95	49.4	46.4	41.4	

MONTHLY AVERAGE 101.7  
MONTHLY SMOOTHED 95.4

50.3  
41.8

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KF) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP
1	2	3	4	5	6	7	8	9	10	11	12	13
1	37724	60	.000	2.667	2.667	2.667	2.667	1.000	1.667	13.333	1.667	
2	37725	61	1.667	2.000	.667	.667	.667	2.333	1.000	14.667	1.833	
3	37726	62	1.000	.333	.667	1.000	3.333	1.667	2.333	13.000	1.625	
4	37727	63	2.667	2.000	1.333	1.667	1.667	1.000	1.333	12.667	1.583	
5	37728	64	1.333	.667	2.667	3.333	5.333	3.333	3.000	23.333	2.750	
6	37729	65	2.667	4.667	4.333	4.333	5.667	4.000	4.000	32.000	4.000	
7	37730	66	2.333	2.667	3.000	1.667	2.333	2.333	.667	15.000	1.875	
8	37731	67	.667	1.667	1.000	.000	.333	.333	.000	4.000	.500	
9	37732	68	.000	.000	.000	.000	.667	.667	1.000	.667	3.000	.375
10	37733	69	2.333	2.000	2.667	2.667	3.000	2.667	2.000	3.333	20.667	2.583
11	37734	70	3.333	3.667	2.333	3.000	1.667	1.667	2.333	.667	12.000	2.500
12	37735	71	2.333	2.000	2.333	3.333	3.000	4.333	3.333	3.667	24.333	3.042
13	37736	72	4.000	2.000	1.333	2.000	2.000	.667	.333	.667	13.000	1.625
14	37737	73	.667	.333	1.000	1.333	1.333	1.333	2.333	.667	9.000	1.125
15	37738	74	2.333	3.333	2.333	2.333	1.333	1.000	1.000	3.333	17.000	2.125
16	37739	75	.667	.667	1.000	1.667	1.667	1.000	1.000	1.333	8.333	1.042
17	37740	76	.667	1.667	1.333	1.333	2.000	1.000	.000	.333	8.333	1.042
18	37741	77	.333	1.000	2.000	2.000	3.333	2.000	2.333	1.667	14.667	1.833
19	37742	78	2.667	2.000	2.000	2.333	4.000	3.333	3.333	2.333	22.000	2.750
20	37743	79	1.000	2.333	2.000	2.333	3.000	4.000	3.333	3.000	21.000	2.625
21	37744	80	3.000	2.333	3.000	2.667	2.667	2.667	3.333	4.000	23.667	2.958
22	37745	81	1.000	.667	.667	.333	.333	.333	.667	3.000	7.000	.875
23	37746	82	.667	.000	1.000	3.333	1.667	.667	.333	.000	7.667	.958
24	37747	83	3.000	1.333	1.000	1.333	1.667	2.333	1.333	1.000	13.000	1.625
25	37748	84	2.333	3.333	2.667	2.000	2.667	1.333	1.000	1.333	16.667	2.083
26	37749	85	2.667	2.000	.333	1.000	.333	.333	.333	.917	7.333	.917
27	37750	86	1.333	1.333	1.333	.667	1.333	1.000	.667	.000	7.667	.958
28	37751	87	.000	.000	.333	.333	1.667	1.667	1.667	2.000	7.667	.958
29	37752	88	3.333	2.667	2.667	1.000	2.000	.333	.667	.333	13.000	1.625
30	37753	89	1.333	.667	.000	.333	.333	.333	1.000	.667	4.667	.583
31	37754	90	1.667	1.000	2.000	.333	.333	1.333	1.000	1.333	9.000	1.125

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER								
			AP	AP	AP	AP	AP	AP	AP	AP	
1	37724	60	0	0	12	12	12	4	6	7.250	.4
2	37725	61	6	7	7	3	12	9	4	7.125	.4
3	37726	62	4	2	3	4	18	6	12	9	7.250
4	37727	63	12	7	5	6	6	4	4	5	6.125
5	37728	64	5	3	12	18	56	18	15	9	17.000
6	37729	65	12	39	32	32	67	27	27	9	30.625
7	37730	66	9	12	15	6	9	9	3	0	7.875
8	37731	67	3	6	4	0	2	2	0	0	2.125
9	37732	68	0	0	0	0	3	3	4	3	1.625
10	37733	69	9	7	12	12	15	12	7	18	11.500
11	37734	70	18	22	9	15	6	15	9	3	12.125
12	37735	71	9	7	9	18	15	32	18	22	16.250
13	37736	72	27	7	5	7	7	3	2	3	7.625
14	37737	73	3	2	4	5	5	5	9	3	4.500
15	37738	74	9	18	9	9	5	4	4	18	9.500
16	37739	75	3	3	4	6	4	4	4	5	4.125
17	37740	76	3	6	5	5	7	4	0	2	4.000
18	37741	77	2	4	7	7	18	7	9	6	7.500
19	37742	78	12	7	7	9	27	18	18	9	13.375
20	37743	79	4	9	7	9	15	27	18	15	13.000
21	37744	80	15	9	15	12	12	12	18	27	15.000
22	37745	81	4	3	3	2	2	2	3	15	4.250
23	37746	82	3	0	4	18	6	3	2	0	4.500
24	37747	83	15	5	4	5	6	9	5	4	6.625
25	37748	84	9	10	12	7	12	5	4	5	9.000
26	37749	85	12	7	2	4	2	2	2	2	4.125
27	37750	86	5	5	5	3	5	4	3	0	3.750
28	37751	87	0	0	2	2	6	6	6	7	3.625
29	37752	88	18	12	12	4	7	2	3	2	7.500
30	37753	89	5	3	0	2	2	2	4	3	2.625
31	37754	90	6	4	7	2	2	5	4	5	4.375

MARCH 1962

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1--SOLAR FLUX(10.7CH OTTAWA)-----	1--RELATIVE ZURICH SUNSPOT NUMBER--1	1--RUNNING MEANS-----	1--RUNNING MEANS-----	54-DAY	DAILY	27-DAY	54-DAY	81-DAY	81-DAY
1	37724	60	121.0	102.0	99.8	96.4	1	85	50.3	47.7	42.3	42.3
2	37725	61	113.0	102.4	100.5	96.8	1	77	51.1	47.0	43.2	43.2
3	37726	62	100.0	102.3	100.9	97.1	1	63	51.6	49.9	44.0	44.0
4	37727	63	89.0	102.1	101.2	97.1	1	46	51.7	50.6	44.6	44.6
5	37728	64	86.0	102.1	101.4	97.2	1	27	51.3	50.9	44.8	44.8
6	37729	65	81.0	102.1	101.5	97.2	1	32	51.1	51.5	45.1	45.1
7	37730	66	80.0	102.0	101.5	97.2	1	36	51.5	51.9	45.4	45.4
8	37731	67	76.0	101.7	101.4	97.1	1	25	51.9	52.0	45.7	45.7
9	37732	68	78.0	101.6	101.3	97.1	1	19	52.0	51.8	45.8	45.8
10	37733	69	75.0	101.4	101.1	97.0	1	13	51.8	51.6	45.8	45.8
11	37734	70	78.0	101.3	100.9	96.8	1	7	51.0	51.3	45.6	45.6
12	37735	71	82.0	101.1	100.8	96.7	1	9	51.8	51.1	45.5	45.5
13	37736	72	81.0	101.0	100.6	96.5	1	13	51.5	50.9	45.0	45.0
14	37737	73	82.0	101.0	100.3	96.2	1	15	51.3	50.6	44.5	44.5
15	37738	74	84.0	100.9	99.8	96.0	1	27	51.7	50.5	43.9	43.9
16	37739	75	86.0	100.9	99.3	95.8	1	27	51.9	50.2	43.1	43.1
17	37740	76	94.0	101.0	99.0	95.6	1	29	51.9	49.6	42.5	42.5
18	37741	77	96.0	100.6	98.6	95.6	1	36	52.2	48.7	42.0	42.0
19	37742	78	117.0	100.9	98.7	95.8	1	61	52.5	48.3	41.9	41.9
20	37743	79	118.0	101.0	98.7	96.0	1	75	52.9	48.1	42.1	42.1
21	37744	80	124.0	101.3	90.9	96.4	1	66	53.4	48.1	42.6	42.6
22	37745	81	128.0	101.0	99.2	96.9	1	94	52.9	48.1	43.3	43.3
23	37746	82	130.0	100.9	99.4	97.3	1	84	51.4	48.1	44.0	44.0
24	37747	83	126.0	100.7	99.7	97.8	1	79	50.5	49.4	44.7	44.7
25	37748	84	126.0	100.7	100.2	98.4	1	74	49.7	48.5	45.3	45.3
26	37749	85	117.0	99.9	100.5	96.8	1	71	48.3	48.5	46.1	46.1
27	37750	86	117.0	99.7	100.6	99.3	1	48	46.6	48.0	46.5	46.5
28	37751	87	104.0	99.3	100.6	99.6	1	38	44.9	47.6	46.8	46.8
29	37752	88	103.0	98.9	100.7	99.9	1	37	43.4	47.2	47.1	47.1
30	37753	89	98.0	98.8	100.6	100.2	1	44	42.7	47.1	47.5	47.5
31	37754	90	92.0	98.9	100.5	100.4	1	38	42.4	47.1	47.9	47.9

MONTHLY AVERAGE 99.8  
MONTHLY SMOOTHED 93.2

45.6  
39.8

APRIL 1962

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MUD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37755	91	1.000	3.000	3.667	3.667	2.333	1.333	1.333	1.667	18.000	2.250
2	37756	92	.667	2.333	.333	1.000	1.000	1.667	3.000	4.333	14.333	1.792
3	37757	93	4.000	2.667	3.667	2.000	1.667	2.667	2.000	2.667	21.333	2.667
4	37758	94	2.333	2.333	3.667	4.000	1.667	1.667	1.333	3.000	20.000	2.500
5	37759	95	3.667	3.000	.667	1.667	1.000	.333	.667	.667	11.667	1.458
6	37760	96	1.667	4.000	3.667	4.667	3.000	2.667	4.667	5.333	29.667	3.708
7	37761	97	5.333	5.667	5.000	5.667	5.667	5.333	5.333	5.000	43.000	5.375
8	37762	98	4.667	4.000	3.000	2.667	3.667	6.333	4.000	3.667	32.000	4.000
9	37763	99	4.000	1.333	3.000	1.667	3.000	2.667	1.667	2.000	19.333	2.417
10	37764	100	2.333	3.667	2.000	4.333	5.000	4.667	5.000	4.667	31.667	3.958
11	37765	101	4.667	4.333	3.333	3.667	3.667	3.667	2.000	2.667	28.000	3.500
12	37766	102	3.333	2.667	.667	1.000	2.000	2.333	1.667	2.667	16.333	2.042
13	37767	103	3.000	1.000	1.000	.333	.333	1.333	1.000	1.333	9.333	1.167
14	37768	104	2.333	.333	.000	.333	.333	.333	.667	.667	5.000	.625
15	37769	105	1.333	2.333	1.000	.333	1.667	3.667	2.667	3.000	16.000	2.000
16	37770	106	3.333	2.333	1.000	.667	.667	1.333	2.000	2.000	13.333	1.667
17	37771	107	3.333	3.333	1.667	1.667	1.667	1.333	1.333	1.000	15.333	1.917
18	37772	108	.333	7.667	2.333	2.667	3.667	3.000	3.333	2.000	20.000	2.500
19	37773	109	3.667	2.667	2.333	.667	.333	.667	.000	1.333	11.667	1.458
20	37774	110	2.667	2.667	1.333	.667	.667	3.000	1.667	4.000	16.667	2.083
21	37775	111	3.333	2.000	2.667	2.667	1.000	5.000	4.000	4.333	25.000	3.125
22	37776	112	4.333	5.000	4.333	4.000	3.667	4.667	3.333	3.667	33.000	4.125
23	37777	113	3.333	3.667	3.000	3.000	2.667	2.333	1.000	1.000	20.000	2.500
24	37778	114	.667	.333	.667	.667	2.333	2.000	2.000	.000	8.667	1.083
25	37779	115	.667	.000	2.000	4.000	3.000	4.000	3.333	1.000	18.000	2.250
26	37780	116	2.000	3.000	4.000	2.333	2.667	1.667	1.333	2.000	19.000	2.375
27	37781	117	2.000	2.667	1.667	1.667	1.333	2.000	2.333	1.000	14.667	1.833
28	37782	118	1.667	2.333	3.000	1.333	1.333	2.333	2.000	2.333	16.333	2.042
29	37783	119	2.000	1.667	1.000	1.333	2.333	1.000	2.000	1.333	12.667	1.583
30	37784	120	2.000	.667	.667	.667	.333	1.667	2.000	1.667	9.667	1.208



# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

APRIL 1962

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1- DAILY	27-DAY	54-DAY	81-DAY	1- DAILY	27-DAY	54-DAY	81-DAY	RELATIVE ZURICH SUNSPOT NUMBER	1- DAILY	27-DAY	54-DAY	81-DAY
1	37755	91	87.0	99.0	100.6	100.6	100.6	1	37	42.7	47.0	48.2	48.2	48.2	48.2
2	37756	92	82.0	99.0	100.5	100.5	100.6	1	31	42.7	46.9	48.5	48.5	48.5	48.5
3	37757	93	80.0	99.0	100.5	100.5	100.7	1	30	42.5	47.0	48.8	48.8	48.8	48.8
4	37758	94	77.0	99.0	100.4	100.4	100.6	1	24	42.4	47.1	48.8	48.8	48.8	48.8
5	37759	95	76.0	99.0	100.3	100.3	100.5	1	28	42.8	47.4	48.8	48.8	48.8	48.8
6	37760	96	78.0	99.1	100.2	100.2	100.4	1	21	43.1	47.4	48.8	48.8	48.8	48.8
7	37761	97	77.0	99.0	100.1	100.1	100.3	1	23	43.7	47.7	48.8	48.8	48.8	48.8
8	37762	98	76.0	98.8	100.0	100.0	100.2	1	22	44.1	48.0	48.8	48.8	48.8	48.8
9	37763	99	77.0	98.7	99.9	99.9	99.9	1	15	44.2	47.9	48.7	48.7	48.7	48.7
10	37764	100	81.0	98.6	99.8	99.8	99.7	1	10	44.0	47.6	48.4	48.4	48.4	48.4
11	37765	101	86.0	98.8	99.9	99.9	99.5	1	21	43.8	47.0	48.3	48.3	48.3	48.3
12	37766	102	93.0	99.0	100.0	100.0	99.2	1	35	44.1	48.0	48.2	48.2	48.2	48.2
13	37767	103	102.0	99.3	100.2	100.2	99.1	1	55	45.1	48.5	48.1	48.1	48.1	48.1
14	37768	104	109.0	99.7	100.2	100.2	99.0	1	75	46.5	49.4	48.0	48.0	48.0	48.0
15	37769	105	111.0	99.5	100.2	100.2	99.0	1	84	47.4	49.9	48.0	48.0	48.0	48.0
16	37770	106	119.0	99.6	100.3	100.3	99.0	1	90	47.9	50.4	48.0	48.0	48.0	48.0
17	37771	107	114.0	99.0	100.2	100.2	99.0	1	82	47.8	50.6	48.0	48.0	48.0	48.0
18	37772	108	109.0	98.3	99.7	99.7	98.9	1	71	46.9	49.9	47.7	47.7	47.7	47.7
19	37773	109	109.0	97.6	99.2	99.2	98.8	1	71	46.4	48.9	47.6	47.6	47.6	47.6
20	37774	110	107.0	96.9	98.8	98.8	98.0	1	72	46.2	48.3	47.6	47.6	47.6	47.6
21	37775	111	112.0	96.3	98.5	98.5	98.9	1	75	46.2	48.0	47.7	47.7	47.7	47.7
22	37776	112	113.0	96.2	98.1	98.1	99.0	1	78	46.5	47.4	47.8	47.8	47.8	47.8
23	37777	113	108.0	95.9	97.8	97.8	99.0	1	72	47.4	47.0	47.8	47.8	47.8	47.8
24	37778	114	105.0	95.7	97.5	97.5	99.0	1	46	47.7	46.3	47.6	47.6	47.6	47.6
25	37779	115	101.0	95.7	97.3	97.3	99.0	1	39	47.7	45.6	47.4	47.4	47.4	47.4
26	37780	116	99.0	95.7	97.3	97.3	98.9	1	37	47.5	45.1	47.3	47.3	47.3	47.3
27	37781	117	99.0	96.0	97.4	97.4	99.0	1	32	47.3	44.8	47.1	47.1	47.1	47.1
28	37782	118	96.0	96.3	97.6	97.6	99.1	1	41	47.4	45.1	47.1	47.1	47.1	47.1
29	37783	119	93.0	96.7	97.9	97.9	99.3	1	40	47.7	45.2	47.2	47.2	47.2	47.2
30	37784	120	91.0	97.1	98.1	98.1	99.4	1	34	47.9	45.2	47.3	47.3	47.3	47.3

MONTHLY AVERAGE 95.7  
MONTHLY SMOOTHED 91.9

46.4  
39.4

MAY 1962

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37705 121	3.667	1.667	1.000	1.000	.667	.667	2.667	3.000	14.333	1.792
2	37706 122	2.000	2.333	3.333	2.000	1.667	2.667	1.667	2.333	16.000	2.250
3	37707 123	3.000	2.333	1.667	2.000	1.333	.667	1.667	1.000	13.667	1.708
4	37708 124	.667	.000	1.333	.000	.000	.000	.333	1.000	3.333	.417
5	37709 125	.000	.000	.667	.333	.333	.667	1.333	3.000	6.333	.792
6	37710 126	1.667	2.000	1.333	3.333	4.333	5.000	4.667	4.333	26.667	3.333
7	37711 127	3.333	2.333	1.333	1.333	1.667	.667	1.333	2.000	14.000	1.750
8	37712 128	2.333	2.000	1.000	.333	1.000	1.000	.667	2.667	11.000	1.375
9	37713 129	1.333	1.333	.000	1.000	.000	.333	.333	.000	4.333	.542
10	37714 130	1.667	2.333	1.333	1.667	1.333	2.333	.333	.333	11.333	1.417
11	37715 131	.333	1.667	1.333	.333	3.000	3.333	3.000	2.667	15.667	1.958
12	37716 132	1.000	.667	1.333	1.000	.333	.333	.667	1.000	6.333	.792
13	37717 133	1.333	2.333	2.000	2.333	4.000	2.000	2.667	4.000	20.667	2.583
14	37718 134	3.000	3.667	3.000	3.333	3.000	1.333	3.000	3.333	23.667	2.958
15	37719 135	3.000	3.000	3.000	1.667	2.667	3.667	4.333	.667	22.000	2.750
16	37800 136	1.000	3.000	2.333	3.333	1.667	.333	1.667	1.667	15.000	1.875
17	37801 137	.333	.667	.667	1.000	.667	1.000	1.000	1.000	6.333	.792
18	37802 138	.667	1.000	.333	.333	1.000	.667	.000	.333	4.333	.542
19	37803 139	.667	1.333	3.667	3.333	2.000	3.333	1.333	1.667	17.333	2.167
20	37804 140	1.667	1.667	1.333	1.333	1.333	2.000	.333	.333	10.000	1.250
21	37805 141	1.000	.333	.333	.333	1.333	.333	.333	.667	4.667	.583
22	37806 142	1.000	.333	.333	1.000	1.333	1.000	.333	.333	5.667	.708
23	37807 143	.000	1.000	.667	.667	1.000	.333	.333	.333	4.333	.542
24	37808 144	.667	1.000	.333	.333	.000	.333	.333	.333	3.333	.417
25	37809 145	.000	.000	.000	.667	.333	.333	.333	1.000	2.333	.292
26	37810 146	.333	.667	.667	.667	1.000	.667	1.333	2.333	7.667	.958
27	37811 147	2.000	3.000	2.667	2.333	3.000	3.667	2.000	2.667	21.333	2.667
28	37812 148	.667	1.000	.667	1.667	2.000	2.000	2.667	2.333	13.000	1.625
29	37813 149	1.333	2.000	2.333	1.667	1.333	1.000	1.333	1.000	12.000	1.500
30	37814 150	.333	1.000	1.000	.333	1.000	.000	.667	1.000	5.333	.667
31	37815 151	.333	2.000	3.333	4.667	5.000	3.667	2.667	4.000	25.667	3.208

# SECTIONAL PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

269

MAY 1962

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----	1--RELATIVE ZURICH SUNSPOT NUMBER--	1-----RUNNING MEANS-----	1-----RUNNING MEANS-----	1-----RELATIVE ZURICH SUNSPOT NUMBER--	1-----RUNNING MEANS-----		
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	37785 121	93.0	97.7	98.4	99.5	49	48.8	45.6	47.7
2	37786 122	95.0	98.4	98.7	99.7	48	49.6	46.2	48.1
3	37787 123	94.0	99.0	99.0	99.8	46	50.5	46.8	48.5
4	37788 124	90.0	99.5	99.3	99.9	42	51.2	47.4	49.9
5	37789 125	87.0	99.9	97.4	100.0	37	51.7	47.9	49.2
6	37790 126	86.0	100.2	99.4	100.0	41	52.7	48.5	49.5
7	37791 127	83.0	100.3	99.5	100.0	31	53.5	48.8	49.6
8	37792 128	84.0	100.1	97.5	100.0	34	54.0	48.9	49.8
9	37793 129	87.0	99.9	99.5	100.0	37	54.0	49.1	50.0
10	37794 130	90.0	99.5	99.4	99.9	44	53.6	49.4	50.2
11	37795 131	97.0	99.0	99.4	99.8	44	52.5	49.5	50.4
12	37796 132	97.0	98.5	99.0	99.7	46	51.1	49.2	50.3
13	37797 133	96.0	97.7	98.6	99.4	39	49.2	48.6	50.0
14	37798 134	94.0	96.9	98.0	99.1	27	47.1	47.3	49.4
15	37799 135	91.0	96.3	97.3	98.5	15	45.1	46.0	48.3
16	37800 136	69.0	95.5	96.5	98.0	18	43.1	44.8	47.0
17	37801 137	93.0	94.9	95.9	97.5	26	41.4	43.8	46.0
18	37802 138	94.0	94.3	95.3	97.1	29	39.7	43.0	45.2
19	37803 139	96.0	93.6	94.9	96.6	32	38.0	42.2	44.3
20	37804 140	103.0	93.4	94.6	96.3	37	36.7	42.0	43.6
21	37805 141	106.0	93.5	94.6	96.2	45	36.7	42.2	43.1
22	37806 142	109.0	93.8	94.7	96.1	59	37.4	42.6	42.8
23	37807 143	110.0	94.2	94.9	96.2	62	38.3	42.9	42.8
24	37808 144	110.0	94.6	95.3	96.5	62	39.4	43.4	43.0
25	37809 145	111.0	95.1	95.7	96.8	60	40.1	43.8	43.4
26	37810 146	110.0	95.8	96.2	97.2	60	40.9	44.3	43.8
27	37811 147	108.0	96.4	96.8	97.5	57	41.7	44.8	44.0
28	37812 148	102.0	96.7	97.2	97.8	60	42.1	45.5	44.5
29	37813 149	104.0	97.1	97.7	98.1	63	42.7	46.1	45.0
30	37814 150	105.0	97.5	98.2	98.5	58	43.1	46.8	45.6
31	37815 151	104.0	98.0	98.7	98.8	48	43.4	47.3	46.1

MONTHLY AVERAGE 97.4  
MONTHLY SMOOTHED 91.343.7  
39.2

JUNE 1962

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	KP	3	KP	4	KP	5	KP	6	KP	7	KP	8	SUM KP	AVG. KP
1	37816	152	2.667	2.000	3.000	2.667	2.000	2.667	2.000	2.000	1.000	1.000	2.000	2.000	2.000	2.000	17.333	2.167
2	37817	153	1.333	1.333	.667	.667	1.667	1.667	1.667	.667	.667	.667	1.667	1.667	1.667	1.667	9.667	1.208
3	37818	154	.667	.000	.333	.333	.667	.667	1.667	1.667	1.667	1.667	1.333	1.333	2.667	2.667	9.000	1.125
4	37819	155	3.667	2.000	2.333	2.333	2.667	2.667	2.333	2.333	2.667	2.667	3.000	3.333	3.333	3.333	22.000	2.750
5	37820	156	2.000	1.333	2.333	2.333	2.000	2.000	1.000	1.000	1.667	1.667	3.333	3.333	3.667	17.333	2.167	2.167
6	37821	157	3.333	2.333	3.333	3.333	1.667	1.667	1.333	1.333	1.333	1.333	2.333	2.333	2.333	18.000	2.250	2.250
7	37822	158	1.333	2.000	3.667	3.667	2.667	2.667	2.000	2.000	1.667	1.667	2.000	2.000	.667	16.000	2.000	2.000
8	37823	159	.000	.667	1.333	1.333	.667	.667	.667	.667	.667	.667	1.000	1.000	1.000	6.000	.750	.750
9	37824	160	2.667	4.000	3.333	3.333	3.667	3.667	3.667	3.667	2.667	2.667	4.000	4.000	4.667	28.667	3.583	3.583
10	37825	161	4.667	3.667	3.333	3.333	4.000	4.000	3.000	3.000	1.667	1.667	2.000	2.000	1.000	23.333	2.917	2.917
11	37826	162	1.000	2.000	2.000	2.000	1.333	1.333	1.667	1.667	.667	.667	1.333	2.000	2.000	12.000	1.500	1.500
12	37827	163	2.333	.667	2.333	2.333	.667	2.333	2.667	2.667	2.000	2.000	2.000	2.000	1.000	15.333	1.917	1.917
13	37828	164	1.333	1.333	2.333	2.333	1.667	1.667	.667	.667	.667	.667	1.000	.667	.667	9.667	1.208	1.208
14	37829	165	1.000	2.667	1.667	1.667	1.667	1.667	1.667	1.667	1.333	1.333	2.333	3.000	3.000	15.333	1.917	1.917
15	37830	166	2.667	3.333	2.000	2.000	2.000	2.000	3.000	3.000	2.667	2.667	3.000	1.000	1.000	19.667	2.458	2.458
16	37831	167	3.333	1.000	1.000	1.000	1.000	1.000	1.333	1.333	1.333	1.333	1.000	.667	.667	10.667	1.333	1.333
17	37832	168	.333	.000	.000	.000	.333	.333	.333	.333	.667	.667	.667	.667	.667	3.000	.375	.375
18	37833	169	1.667	.667	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.000	4.000	.500	.500
19	37834	170	.667	1.000	1.000	1.000	.667	.667	2.000	2.000	1.667	1.667	1.333	1.000	1.000	9.333	1.167	1.167
20	37835	171	1.333	1.000	1.333	1.333	1.000	1.000	.667	.667	.667	.667	1.000	1.000	1.000	8.000	1.000	1.000
21	37836	172	1.000	1.000	.333	.333	3.000	3.000	3.000	3.000	3.667	3.667	4.000	2.333	2.333	18.333	2.292	2.292
22	37837	173	2.667	3.667	2.667	2.667	1.667	1.667	1.667	1.333	1.333	1.333	2.667	2.000	2.000	18.000	2.250	2.250
23	37838	174	2.667	2.333	3.333	3.333	2.667	2.667	2.333	2.333	3.000	3.000	4.333	2.667	2.667	23.333	2.917	2.917
24	37839	175	2.000	1.333	2.000	2.000	1.667	1.667	1.333	1.333	1.667	1.667	2.000	2.000	2.000	14.000	1.750	1.750
25	37840	176	2.000	2.333	2.667	2.667	1.333	1.333	1.333	1.333	.667	.667	1.333	1.333	1.000	12.667	1.583	1.583
26	37841	177	.667	.667	2.000	2.000	1.333	1.333	1.333	1.333	2.333	2.333	2.333	3.000	3.000	13.667	1.708	1.708
27	37842	178	3.000	3.333	3.667	3.667	3.000	3.000	4.000	4.000	2.667	2.667	4.000	3.333	3.333	27.000	3.375	3.375
28	37843	179	2.667	2.667	3.333	3.333	3.667	3.667	3.667	3.667	2.000	2.000	2.667	4.333	4.333	25.000	3.125	3.125
29	37844	180	3.000	3.333	3.000	3.000	2.667	2.667	3.333	3.333	2.333	2.333	2.667	2.667	2.667	23.000	2.875	2.875
30	37845	181	2.333	3.667	3.333	3.333	3.000	3.000	3.000	2.000	3.667	3.667	1.667	1.667	1.667	21.333	2.667	2.667

JUNE 1962

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37816	152	12	7	15	12	7	4	7	7	7	7	7	8.875	.7
2	37817	153	5	5	3	6	3	3	6	6	6	6	6	4.625	.2
3	37818	154	3	0	2	3	6	6	5	12	5	12	5	4.625	.3
4	37819	155	22	7	9	12	9	12	15	18	18	18	18	13.000	1.0
5	37820	156	7	5	9	7	4	6	18	22	22	22	22	9.750	.8
6	37821	157	18	9	18	6	5	3	7	9	9	9	9	9.875	.7
7	37822	158	5	7	22	12	7	6	7	3	3	3	3	8.625	.8
8	37823	159	0	3	5	3	3	3	4	4	4	4	4	3.125	.1
9	37824	160	12	27	18	22	22	12	27	39	39	39	39	22.375	1.2
10	37825	161	39	22	18	27	15	6	7	4	4	4	4	17.250	1.0
11	37826	162	4	7	7	5	6	3	5	7	7	7	7	5.500	.3
12	37827	163	9	3	9	9	12	7	7	4	4	4	4	7.500	.4
13	37828	164	5	5	9	6	3	3	4	3	3	3	3	4.750	.2
14	37829	165	4	12	6	6	6	5	9	15	15	15	15	7.875	.3
15	37830	166	12	18	7	7	15	12	15	4	4	4	4	11.250	.8
16	37831	167	18	4	4	4	5	5	4	3	3	3	3	5.875	.3
17	37832	168	2	0	0	2	2	3	3	3	3	3	3	1.875	.0
18	37833	169	6	3	2	2	2	2	2	0	0	0	0	2.375	.1
19	37834	170	3	4	4	3	7	6	5	4	4	4	4	4.500	.2
20	37835	171	5	4	5	4	3	3	4	4	4	4	4	4.000	.2
21	37836	172	4	4	2	15	15	22	27	9	9	9	9	12.250	.7
22	37837	173	12	22	12	6	5	5	12	7	7	7	7	10.125	.6
23	37838	174	12	9	18	12	9	15	32	12	12	12	12	14.875	1.0
24	37839	175	7	5	7	6	5	6	7	7	7	7	7	6.250	.4
25	37840	176	7	9	12	5	3	3	5	4	4	4	4	6.250	.3
26	37841	177	3	3	7	5	5	9	9	15	15	15	15	7.000	.4
27	37842	178	15	18	22	15	27	12	27	18	18	18	18	19.250	1.1
28	37843	179	12	12	18	22	22	7	12	32	32	32	32	17.125	1.2
29	37844	180	15	18	15	12	18	9	12	12	12	12	12	13.875	.8
30	37845	181	9	22	10	15	7	22	6	6	6	6	6	13.125	.9

JUNE 1962

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1-----SOLAR FLUX(10.7CM UTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1
			DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	54-DAY 81-DAY
1	37816	152	96.0	99.1	99.0	35 43.3 47.5 46.4
2	37817	153	92.0	99.4	97.2	34 43.0 47.9 46.7
3	37818	154	86.0	99.5	99.2	26 42.9 48.2 46.8
4	37819	155	65.0	98.8	99.2	21 42.4 48.2 46.7
5	37820	156	65.0	98.7	99.2	21 42.4 48.2 46.7
6	37821	157	87.0	98.6	99.1	33 41.6 47.5 46.8
7	37822	158	91.0	98.4	99.0	35 41.2 46.9 46.7
8	37823	159	89.0	98.1	98.7	38 40.9 46.0 46.5
9	37824	160	91.0	97.9	98.4	46 41.2 45.2 46.1
10	37825	161	90.0	97.7	97.9	41 41.7 44.4 45.5
11	37826	162	86.0	97.6	97.4	40 42.6 43.9 44.9
12	37827	163	87.0	97.6	96.9	39 43.4 43.3 44.3
13	37828	164	88.0	97.4	96.4	39 43.9 42.6 43.8
14	37829	165	89.0	97.2	95.9	40 44.3 42.0 43.4
15	37830	166	92.0	97.0	95.6	59 45.3 41.6 43.3
16	37831	167	95.0	96.7	95.3	58 46.1 41.4 43.4
17	37832	168	96.0	96.4	95.2	70 47.0 41.8 43.8
18	37833	169	97.0	96.0	95.1	68 47.3 42.4 44.2
19	37834	170	98.0	95.6	95.1	62 47.3 42.8 44.4
20	37835	171	95.0	95.0	95.2	40 46.7 43.1 44.5
21	37836	172	90.0	94.2	95.2	35 45.7 42.9 44.4
22	37837	173	90.0	93.5	95.3	46 45.2 43.1 44.6
23	37838	174	86.0	92.7	95.4	33 44.3 43.0 44.7
24	37839	175	87.0	92.1	95.5	30 43.2 42.7 44.7
25	37840	176	89.0	91.6	95.7	43 42.5 42.6 44.9
26	37841	177	91.0	91.0	95.8	46 42.0 42.6 45.2
27	37842	178	92.0	90.6	96.0	36 41.6 42.5 45.4
28	37843	179	90.0	90.3	96.2	44 41.9 42.6 45.7
29	37844	180	90.0	90.2	96.4	44 42.3 42.7 46.0
30	37845	181	90.0	90.4	96.5	49 43.1 43.0 46.5

MONTHLY AVERAGE 90.5  
MONTHLY SMOOTHED 90.5

42.0  
38.3



JULY 1962

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	37846 182	2.000	2.000	2.667	3.000	2.333	2.333	1.667	2.000	19.000	2.250
2	37847 183	2.333	1.000	2.000	2.000	.667	1.667	2.667	3.000	15.333	1.917
3	37848 184	2.667	1.000	1.667	2.000	2.000	2.667	2.333	1.333	15.667	1.958
4	37849 185	2.000	3.667	3.000	2.333	3.333	2.000	4.333	4.667	25.333	3.167
5	37850 186	3.000	4.000	4.000	3.000	2.333	2.333	3.333	2.333	24.333	3.042
6	37851 187	3.333	3.000	2.667	3.667	2.000	1.667	2.333	2.000	20.667	2.533
7	37852 188	1.000	.667	.667	2.333	1.667	2.333	3.000	3.333	15.000	1.875
8	37853 189	2.000	3.000	3.000	2.333	2.000	2.000	2.333	3.000	19.667	2.458
9	37854 190	2.333	2.000	2.000	1.333	.667	.667	1.333	1.667	12.000	1.500
10	37855 191	2.000	1.000	1.333	.333	3.000	3.333	2.000	2.000	15.000	1.875
11	37856 192	2.000	1.667	2.667	2.000	2.667	2.333	2.667	2.333	18.333	2.292
12	37857 193	1.000	3.000	2.333	2.000	2.000	2.000	1.333	1.333	15.000	1.875
13	37858 194	3.000	1.333	1.667	1.333	2.667	2.667	3.000	3.000	18.667	2.333
14	37859 195	3.000	2.667	2.667	1.667	1.667	2.333	1.000	2.000	17.000	2.125
15	37860 196	3.000	1.000	.667	.667	.667	1.333	2.000	2.000	11.333	1.417
16	37861 197	2.000	1.333	.333	.333	1.000	.333	.333	.000	5.667	.708
17	37862 198	.333	.333	.333	.333	.667	.333	.333	1.000	3.667	.458
18	37863 199	1.333	.667	.667	.667	1.333	.667	2.000	1.000	8.333	1.042
19	37864 200	1.333	2.333	2.000	3.000	2.333	1.333	3.333	2.667	18.333	2.292
20	37865 201	3.333	4.000	4.000	2.667	2.333	2.667	2.667	2.000	23.667	2.958
21	37866 202	3.000	2.667	1.667	2.667	2.000	3.000	3.333	3.000	21.333	2.667
22	37867 203	3.000	2.000	2.333	1.667	.667	1.333	1.333	2.000	14.333	1.792
23	37868 204	1.000	2.333	3.000	2.000	1.333	1.000	3.333	1.667	15.667	1.758
24	37869 205	2.333	1.000	1.000	.667	2.000	4.333	4.667	4.000	20.000	2.500
25	37870 206	4.667	4.333	3.333	2.333	1.667	.667	1.000	2.333	20.333	2.542
26	37871 207	2.667	6.333	5.667	5.667	5.000	3.333	4.333	4.333	37.333	4.667
27	37872 208	5.000	3.667	3.333	2.667	4.000	5.333	2.667	4.000	30.667	3.833
28	37873 209	3.667	3.667	4.000	2.667	3.000	3.667	2.333	2.667	25.667	3.208
29	37874 210	3.667	1.667	3.000	1.667	1.333	2.667	1.333	1.667	17.000	2.125
30	37875 211	2.000	2.667	2.000	.333	.667	.667	.667	1.333	10.333	1.292
31	37876 212	.667	.667	1.333	1.333	.667	2.000	4.333	4.333	15.333	1.917

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

275

JULY 1962

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1			1-----RELATIVE ZURICH SUNSPOT NUMBER-----1					
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY			
1	37846 182	89.0	90.5	94.6	96.5	1	54	44.4	43.4	46.9
2	37847 183	89.0	90.7	94.7	96.4	1	42	45.0	43.5	47.0
3	37848 184	89.0	90.7	94.7	96.3	1	39	45.2	43.4	46.8
4	37849 185	89.0	90.7	94.5	96.0	1	30	45.0	43.1	46.2
5	37850 186	87.0	90.6	94.3	95.7	1	23	44.6	42.8	45.5
6	37851 187	86.0	90.4	94.1	95.3	1	26	43.9	42.5	44.8
7	37852 188	87.0	90.3	94.0	95.0	1	21	43.1	42.4	44.0
8	37853 189	83.0	90.1	93.9	94.7	1	18	42.3	42.5	43.3
9	37854 190	80.0	89.9	93.7	94.3	1	11	41.3	42.4	42.6
10	37855 191	80.0	89.6	93.5	94.0	1	13	40.3	42.1	41.9
11	37856 192	82.0	89.3	93.2	93.6	1	19	39.6	41.9	41.2
12	37857 193	81.0	88.9	93.0	93.2	1	17	38.0	41.6	40.4
13	37858 194	85.0	88.5	92.6	92.9	1	29	36.9	41.5	39.9
14	37859 195	86.0	88.1	92.3	92.7	1	34	35.6	41.3	39.8
15	37860 196	85.0	87.6	91.8	92.5	1	22	33.9	40.6	39.5
16	37861 197	83.0	87.1	91.3	92.3	1	23	32.6	40.0	39.4
17	37862 198	83.0	86.6	90.8	92.1	1	34	32.3	39.5	39.5
18	37863 199	81.0	86.3	90.3	91.9	1	29	32.0	38.9	39.3
19	37864 200	80.0	85.9	89.7	91.7	1	14	30.9	38.0	39.0
20	37865 201	80.0	85.7	89.2	91.6	1	14	30.1	37.2	38.7
21	37866 202	78.0	85.4	88.7	91.4	1	29	30.1	36.7	38.5
22	37867 203	80.0	85.0	88.3	91.2	1	29	29.6	36.0	38.3
23	37868 204	78.0	84.6	87.8	91.0	1	17	28.5	35.3	37.9
24	37869 205	78.0	84.0	87.3	90.9	1	14	27.7	34.6	37.6
25	37870 206	74.0	83.4	86.9	90.7	1	12	26.5	34.2	37.2
26	37871 207	76.0	82.9	86.6	90.6	1	10	25.3	33.8	36.9
27	37872 208	74.0	82.3	86.4	90.5	1	11	23.9	33.5	36.6
28	37873 209	74.0	81.6	86.1	90.4	1	15	22.4	33.4	36.4
29	37874 210	73.0	81.2	85.9	90.2	1	9	21.2	33.1	36.0
30	37875 211	72.0	80.6	85.6	90.0	1	8	20.0	32.6	35.6
31	37876 212	73.0	80.0	85.3	89.7	1	0	18.9	32.0	35.0

MONTHLY AVERAGE 81.1  
MONTHLY SMOOTHED 89.2

21.8  
36.8

AUGUST 1962

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37877 213	5.000	5.333	4.667	6.000	3.667	3.000	3.000	3.000	4.000	34.667	4.333
2	37878 214	3.333	3.000	1.000	2.333	2.333	2.333	2.333	2.333	2.000	18.667	2.333
3	37879 215	2.000	2.667	2.667	1.667	2.667	2.667	2.667	2.667	2.667	19.667	2.458
4	37880 216	1.000	2.000	2.333	1.667	1.667	1.667	2.333	2.333	1.333	14.000	1.750
5	37881 217	2.000	2.000	2.667	3.000	2.000	1.667	1.667	1.333	.667	15.333	1.917
6	37882 218	3.000	3.333	4.000	3.000	3.667	3.333	3.333	2.667	3.333	26.333	3.292
7	37883 219	4.000	3.000	2.333	2.333	3.000	3.667	4.333	4.333	27.333	3.417	3.417
8	37884 220	5.000	4.000	5.000	4.333	4.000	4.000	4.000	2.667	4.333	33.333	4.167
9	37885 221	4.667	3.333	4.000	3.333	3.000	2.333	2.667	2.667	3.000	26.333	3.292
10	37886 222	3.000	2.667	3.333	2.333	2.333	2.667	2.667	1.000	1.000	18.333	2.292
11	37887 223	1.000	.667	.333	.333	.667	.333	.333	.667	.000	4.000	.500
12	37888 224	.533	1.000	.667	1.667	1.667	.333	.333	.333	1.000	7.000	.875
13	37889 225	.667	.667	1.000	1.333	.667	.333	.333	1.000	3.333	9.000	1.125
14	37890 226	2.333	2.333	1.000	1.667	2.333	1.000	1.000	3.000	3.333	17.000	2.125
15	37891 227	2.667	4.667	5.000	3.333	2.000	2.667	2.667	2.667	4.000	27.000	3.375
16	37892 228	5.000	3.333	4.000	1.000	1.333	1.667	3.667	3.667	4.667	24.667	3.083
17	37893 229	4.333	3.333	3.000	3.000	3.333	3.667	3.667	3.667	5.000	29.333	3.467
18	37894 230	3.333	4.333	4.667	2.667	3.333	3.667	3.667	2.333	3.333	27.667	3.458
19	37895 231	4.333	3.333	3.333	3.333	2.667	2.333	2.333	2.000	2.333	24.667	3.083
20	37896 232	1.667	.667	1.000	1.333	1.667	1.000	1.000	.667	1.667	9.667	1.208
21	37897 233	2.000	.667	.667	1.000	1.000	1.000	1.667	1.333	3.667	12.000	1.500
22	37898 234	5.333	4.000	5.333	2.333	2.667	2.667	2.667	4.667	4.667	31.667	3.958
23	37899 235	3.667	3.333	3.000	3.333	3.333	3.333	3.333	3.000	2.667	25.667	3.208
24	37900 236	3.333	3.000	4.333	3.333	4.333	3.333	3.333	2.333	3.667	27.667	3.458
25	37901 237	4.000	2.667	3.000	2.333	2.333	2.000	2.667	2.000	3.333	22.000	2.750
26	37902 238	2.667	2.333	2.333	2.667	2.333	1.000	1.000	1.000	1.000	15.333	1.917
27	37903 239	2.333	2.000	2.333	.333	.333	.667	.667	1.000	.667	9.667	1.208
28	37904 240	1.333	2.000	.667	1.667	1.667	1.333	1.333	.333	.333	9.333	1.167
29	37905 241	1.000	3.000	3.333	3.667	2.667	2.667	2.667	3.333	3.333	23.000	2.875
30	37906 242	2.333	3.000	2.667	1.667	3.667	3.667	2.667	3.667	2.000	21.667	2.708
31	37907 243	4.667	4.667	5.333	3.667	3.667	3.333	1.333	2.667	2.000	27.667	3.458

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPITUDE THREE HOURLY (AP) INDICES

[illegible]

AUGUST 1962

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH			MOD. JULIAN DAY	1---SOLAR FLUX(10.7CM OTTAWA)---			1---RELATIVE ZURICH SUNSPOT NUMBER---					
			DAY	YEAR	1	DAILY 27-DAY	4-DAY	81-DAY	1	DAILY 27-DAY	54-DAY	81-DAY
1	37877	213	1	70.0	79.3	85.0	89.3	1	0	17.9	31.3	34.5
2	37878	214	1	73.0	78.9	84.6	89.0	1	7	17.2	30.5	34.1
3	37879	215	1	71.0	78.3	84.3	88.8	1	7	16.7	29.9	33.8
4	37880	216	1	72.0	77.9	84.0	88.5	1	10	16.4	29.4	33.8
5	37881	217	1	70.0	77.5	83.7	88.3	1	14	16.5	28.9	33.7
6	37882	218	1	71.0	77.1	83.4	88.0	1	11	16.4	28.4	33.5
7	37883	219	1	71.0	76.7	83.0	87.7	1	9	16.0	27.8	33.3
8	37884	220	1	72.0	76.4	82.6	87.4	1	8	15.7	26.9	33.0
9	37885	221	1	73.0	76.0	82.2	87.1	1	7	14.9	25.9	32.6
10	37886	222	1	75.0	75.6	81.8	86.7	1	0	13.6	24.6	32.1
11	37887	223	1	73.0	75.1	81.4	86.2	1	0	12.8	23.4	31.3
12	37888	224	1	76.0	74.9	81.0	85.8	1	15	12.3	22.5	30.8
13	37889	225	1	79.0	74.7	80.7	85.4	1	24	12.0	22.1	30.3
14	37890	226	1	83.0	74.8	80.5	85.1	1	40	12.4	22.2	30.0
15	37891	227	1	91.0	75.2	80.6	84.9	1	50	13.7	22.3	29.9
16	37892	228	1	90.0	75.6	80.6	84.6	1	50	15.0	22.6	29.8
17	37893	229	1	88.0	75.9	80.6	84.5	1	54	16.0	23.0	29.8
18	37894	230	1	84.0	76.1	80.6	84.2	1	46	16.6	23.1	29.6
19	37895	231	1	83.0	76.3	80.4	84.0	1	46	17.7	23.1	29.4
20	37896	232	1	84.0	76.5	80.3	83.7	1	39	18.6	23.1	29.3
21	37897	233	1	81.0	76.7	80.1	83.5	1	37	19.5	23.0	29.3
22	37898	234	1	80.0	76.9	79.9	83.3	1	32	20.3	22.8	29.3
23	37899	235	1	79.0	77.1	79.7	83.3	1	29	21.0	22.4	29.3
24	37900	236	1	78.0	77.2	79.5	83.2	1	36	21.8	22.1	29.5
25	37901	237	1	77.0	77.4	79.3	83.1	1	16	22.0	21.6	29.4
26	37902	238	1	75.0	77.5	79.0	82.9	1	7	22.0	21.0	29.1
27	37903	239	1	73.0	77.5	78.7	82.7	1	7	22.3	20.6	28.7
28	37904	240	1	72.0	77.6	78.4	82.5	1	14	22.8	20.3	28.4
29	37905	241	1	71.0	77.5	78.2	82.2	1	15	23.1	20.1	28.0
30	37906	242	1	72.0	77.5	77.9	82.0	1	25	23.7	20.2	27.9
31	37907	243	1	75.0	77.6	77.7	81.9	1	22	24.2	20.3	27.6

MONTHLY AVERAGE 76.8  
MONTHLY SMOOTHED 87.7

21.8  
35.0

SEPTEMBER 1962

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37908 244	3.333	3.333	2.333	4.667	4.000	4.000	5.000	4.667	4.000	32.000	4.000
2	37909 245	3.000	3.000	4.667	4.667	4.667	5.667	4.000	4.333	3.333	34.333	4.292
3	37910 246	4.000	5.333	5.333	3.667	5.333	4.000	4.000	5.667	6.333	38.333	4.792
4	37911 247	4.667	4.667	5.667	4.333	4.667	4.000	5.000	3.667	3.000	35.000	4.375
5	37912 248	1.000	3.333	3.333	4.000	3.333	3.000	3.667	2.667	3.000	24.000	3.000
6	37913 249	3.667	3.667	4.000	5.000	4.000	2.667	2.000	3.000	3.333	27.667	3.458
7	37914 250	3.667	3.667	4.000	4.000	3.000	2.667	1.333	2.000	1.333	21.667	2.708
8	37915 251	3.333	4.000	4.000	4.000	3.000	1.667	2.000	1.000	1.667	20.667	2.583
9	37916 252	2.667	3.000	3.000	3.667	2.000	2.333	2.000	3.000	3.333	19.000	2.375
10	37917 253	3.000	4.000	4.000	2.667	3.000	1.667	4.667	4.667	1.000	14.667	2.083
11	37918 254	2.333	1.333	2.333	3.667	3.667	3.667	3.667	1.667	2.667	15.333	1.917
12	37919 255	2.667	3.000	7.333	3.667	5.000	3.667	4.667	6.667	5.667	35.667	4.833
13	37920 256	4.000	3.333	3.667	2.667	2.667	3.000	4.333	5.000	2.000	28.000	3.500
14	37921 257	3.000	3.000	4.000	1.667	1.667	1.000	1.667	2.000	2.333	18.667	2.333
15	37922 258	3.000	3.667	4.000	4.000	2.667	3.667	2.333	3.333	3.000	22.667	2.833
16	37923 259	2.333	2.667	3.667	3.667	2.000	2.000	1.667	3.000	3.333	17.667	2.208
17	37924 260	2.000	2.667	2.333	2.333	1.333	2.000	1.333	1.667	2.000	15.333	1.917
18	37925 261	1.667	3.667	1.000	1.000	1.000	1.000	1.000	1.333	2.667	10.333	1.292
19	37926 262	3.000	4.333	5.667	4.000	4.000	3.333	4.333	6.000	4.667	35.333	4.417
20	37927 263	4.667	3.333	2.333	3.667	3.667	2.333	3.667	1.000	3.667	16.667	2.333
21	37928 264	2.000	2.667	2.667	2.667	1.667	3.000	3.667	2.667	2.667	21.000	2.625
22	37929 265	4.000	3.667	3.000	4.000	4.000	3.667	3.667	3.667	2.333	28.000	3.500
23	37930 266	3.333	4.333	3.000	3.333	3.333	1.333	1.000	1.333	2.333	20.000	2.500
24	37931 267	2.333	3.000	1.000	3.333	3.333	3.667	3.333	2.000	1.667	11.333	1.417
25	37932 268	3.333	3.667	3.667	1.667	1.667	1.667	2.333	2.333	3.000	12.667	1.583
26	37933 269	5.333	5.667	3.333	2.000	2.000	3.333	5.333	4.000	2.333	31.333	3.917
27	37934 270	3.000	2.333	2.000	2.333	2.333	2.667	2.000	1.000	1.667	17.000	2.125
28	37935 271	2.667	1.333	4.667	1.000	1.000	2.333	2.667	1.667	3.333	15.667	1.958
29	37936 272	2.000	3.333	3.000	3.333	3.333	2.333	2.333	3.333	5.333	25.000	3.125
30	37937 273	4.000	4.333	3.000	2.667	2.667	2.667	2.000	1.667	1.333	21.667	2.708

GEOMAGNETIC PLANETARY INDICES  
PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

281



SEPTEMBER 1962

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1
		DAILY 27-DAY	81-DAY	DAILY 27-DAY	81-DAY	DAILY 27-DAY	81-DAY
1	37908 244	78.1	77.8	81.8	43	25.4	21.0
2	37909 245	78.9	78.0	81.9	57	27.1	21.8
3	37910 246	79.9	78.3	82.0	80	29.8	22.9
4	37911 247	80.9	78.7	82.1	87	32.7	24.2
5	37912 248	81.8	78.9	82.1	88	35.7	25.3
6	37913 249	82.7	79.1	82.1	60	38.7	26.1
7	37914 250	83.7	79.4	82.1	66	41.1	27.0
8	37915 251	84.5	79.7	82.1	58	42.7	27.5
9	37916 252	85.0	79.9	82.1	53	43.8	27.9
10	37917 253	85.3	80.0	82.1	44	43.9	28.1
11	37918 254	85.3	80.2	82.1	50	43.9	28.8
12	37919 255	85.4	80.5	82.2	60	44.3	29.7
13	37920 256	85.5	80.7	82.3	58	44.4	30.2
14	37921 257	85.9	81.0	82.3	53	44.7	30.6
15	37922 258	86.2	81.2	82.3	60	45.2	31.4
16	37923 259	86.4	81.5	82.3	42	45.3	32.0
17	37924 260	86.3	81.5	82.2	33	45.2	32.4
18	37925 261	86.5	81.7	82.1	35	45.3	32.8
19	37926 262	86.7	81.9	82.0	24	45.1	33.1
20	37927 263	86.9	82.1	82.0	24	44.7	33.2
21	37928 264	87.1	82.2	81.9	31	45.2	33.6
22	37929 265	87.3	82.4	81.8	32	46.1	34.1
23	37930 266	87.6	82.6	81.7	33	47.3	34.8
24	37931 267	88.0	82.8	81.6	53	48.7	35.8
25	37932 268	88.5	83.0	81.6	54	50.2	36.6
26	37933 269	88.9	83.2	81.6	55	51.3	37.5
27	37934 270	89.3	83.4	81.6	51	52.4	38.3
28	37935 271	89.3	83.7	81.6	44	52.2	38.8
29	37936 272	89.0	84.0	81.7	36	51.4	39.3
30	37937 273	88.7	84.3	81.8	46	50.2	40.0

MONTHLY AVERAGE 89.0  
MONTHLY SMOOTHED 85.851.3  
32.7

OCTOBER 1962

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	37938 274	3.333	4.333	5.000	5.000	5.333	4.667	5.667	4.667	30.000	4.750
2	37939 275	4.333	3.667	4.667	3.667	3.667	4.333	2.667	1.333	28.333	3.542
3	37940 276	1.667	2.667	3.667	2.333	3.333	1.667	1.667	2.667	19.667	2.458
4	37941 277	2.333	3.333	3.000	2.000	.667	2.333	2.000	2.667	18.333	2.292
5	37942 278	1.000	1.667	1.333	1.000	1.333	2.667	4.667	3.333	17.000	2.125
6	37943 279	4.667	3.667	4.333	1.000	3.333	2.667	.333	2.333	22.333	2.792
7	37944 280	2.333	3.333	1.333	2.000	.667	1.333	3.333	4.333	18.667	2.333
8	37945 281	6.333	3.667	3.333	4.333	3.333	4.667	4.000	4.000	33.667	4.208
9	37946 282	5.667	4.333	4.667	3.667	4.333	4.000	3.000	3.667	33.333	4.167
10	37947 283	3.667	3.333	2.667	3.333	4.667	3.667	4.333	2.667	28.333	3.542
11	37948 284	3.667	5.000	4.333	3.333	3.667	3.000	3.667	3.333	30.000	3.750
12	37949 285	3.000	2.333	2.333	3.667	1.667	1.333	.667	.667	15.667	1.956
13	37950 286	.667	1.333	1.333	3.333	3.667	2.667	2.333	3.000	18.333	2.292
14	37951 287	4.000	4.333	4.667	4.667	4.000	3.000	4.667	3.667	33.000	4.125
15	37952 288	2.667	3.333	2.333	2.667	1.667	2.667	.667	2.000	18.000	2.250
16	37953 289	2.667	2.000	2.000	5.667	4.000	2.000	3.667	3.000	25.000	3.125
17	37954 290	3.333	2.333	2.667	2.000	.667	.000	1.000	1.333	13.333	1.667
18	37955 291	4.667	4.667	1.667	1.333	1.667	3.333	3.000	1.333	21.667	2.708
19	37956 292	.333	.000	5.000	5.000	4.667	5.000	3.667	3.667	27.333	3.417
20	37957 293	2.000	2.000	1.667	1.000	2.667	2.667	3.000	3.667	19.667	2.333
21	37958 294	3.667	3.333	2.333	2.333	2.000	3.667	3.000	2.000	22.333	2.792
22	37959 295	2.333	3.667	3.000	4.000	4.333	3.333	3.333	4.667	28.667	3.563
23	37960 296	5.000	4.000	3.000	3.667	3.333	3.667	3.000	3.333	29.000	3.625
24	37961 297	3.000	3.667	2.667	3.000	4.000	5.000	4.667	4.667	30.667	3.833
25	37962 298	3.667	4.333	4.333	4.000	4.333	4.667	4.667	5.000	35.000	4.375
26	37963 299	3.667	3.667	4.667	4.333	4.333	4.333	5.333	4.000	34.333	4.292
27	37964 300	3.667	4.000	5.000	3.000	5.000	4.667	2.667	3.333	31.333	3.917
28	37965 301	3.333	4.333	3.333	3.000	3.000	2.667	3.333	3.000	26.000	3.250
29	37966 302	3.000	2.667	2.667	2.667	2.333	2.667	2.333	3.333	21.667	2.708
30	37967 303	3.000	3.000	3.000	3.333	2.333	3.000	3.333	2.333	23.333	2.917
31	37968 304	2.000	2.333	2.333	2.667	2.000	1.667	2.333	2.667	18.000	2.250

OCTOBER 1962

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	37938	274	18	32	48	48	56	39	67	39					43.375 1.5
2	37939	275	32	22	39	22	22	32	12	5					23.250 1.1
3	37940	276	6	12	22	9	18	6	6	12					11.375 .7
4	37941	277	9	13	15	7	3	9	7	12					10.000 .6
5	37942	278	4	6	5	4	5	12	39	18					11.625 .8
6	37943	279	39	22	32	4	18	12	2	9					17.250 .8
7	37944	280	9	18	5	7	3	5	18	32					12.125 .8
8	37945	281	94	22	18	32	18	39	27	27					34.625 1.5
9	37946	282	67	32	39	22	32	27	15	22					32.000 1.3
10	37947	283	22	18	12	18	39	22	32	12					21.875 1.2
11	37948	284	22	48	32	18	22	15	22	18					24.625 1.1
12	37949	285	15	9	9	22	6	5	3	3					9.000 .4
13	37950	286	3	5	5	18	22	12	9	15					11.125 .7
14	37951	287	27	32	39	39	27	15	39	22					30.000 1.3
15	37952	288	12	18	9	12	6	12	3	7					9.875 .5
16	37953	289	12	7	7	67	27	7	22	15					20.500 1.1
17	37954	290	18	9	12	7	3	0	4	5					7.250 .3
18	37955	291	39	39	6	5	6	18	15	5					16.625 .8
19	37956	292	2	0	48	48	39	48	22	22					28.625 1.4
20	37957	293	7	7	6	4	12	12	15	22					10.625 .6
21	37958	294	22	18	9	9	7	22	15	7					13.625 .7
22	37959	295	9	22	15	27	32	18	18	39					22.500 1.1
23	37960	296	48	27	15	22	18	22	15	18					23.125 1.0
24	37961	297	15	22	12	15	27	43	39	39					27.125 1.3
25	37962	298	22	32	32	27	32	39	39	48					33.875 1.4
26	37963	299	22	22	39	32	32	32	56	27					37.750 1.3
27	37964	300	22	27	48	15	48	39	12	18					28.625 1.3
28	37965	301	18	32	13	15	15	12	18	15					17.975 .9
29	37966	302	15	12	12	12	9	12	9	18					12.375 .7
30	37967	303	15	15	15	18	9	15	18	9					14.250 .7
31	37968	304	7	9	9	12	7	6	9	12					8.875 .7

OCTOBER 1962

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)-----1---RELATIVE ZURICH SUNSPOT NUMBER--1	1-----RUNNING MEANS-----1-----RUNNING MEANS-----1	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY--1		
1	37933 274	1	86.0	88.2	84.6	81.9	1	51	48.9	40.3	32.4
2	37937 275	1	85.0	87.8	84.8	81.9	1	39	47.0	41.4	32.5
3	37940 276	1	83.0	87.1	84.9	81.8	1	22	44.9	41.3	32.4
4	37941 277	1	82.0	86.5	85.1	81.8	1	18	43.1	42.1	32.3
5	37942 278	1	85.0	86.1	85.3	81.8	1	13	41.4	42.1	32.2
6	37943 279	1	84.0	85.7	85.4	81.8	1	25	40.4	42.1	32.0
7	37944 280	1	85.0	85.5	85.4	81.9	1	37	40.1	42.0	32.1
8	37945 281	1	87.0	85.4	85.3	82.0	1	40	39.8	41.9	32.5
9	37946 282	1	86.0	85.1	85.3	82.0	1	42	39.1	41.7	32.8
10	37947 283	1	93.0	85.2	85.4	82.2	1	51	38.9	41.6	33.1
11	37948 284	1	93.0	85.1	85.5	82.4	1	62	39.2	41.9	33.5
12	37949 285	1	93.0	85.2	85.7	82.6	1	64	39.3	42.3	34.1
13	37950 286	1	95.0	85.4	85.9	82.8	1	72	40.4	42.9	34.8
14	37951 287	1	96.0	86.0	86.2	83.0	1	67	41.7	43.4	35.5
15	37952 288	1	94.0	86.4	86.4	83.3	1	61	42.7	44.0	36.1
16	37953 289	1	91.0	86.6	86.7	83.5	1	51	43.7	44.4	36.6
17	37954 290	1	91.0	86.9	86.9	83.7	1	43	44.4	44.5	36.9
18	37955 291	1	89.0	87.2	87.1	83.9	1	33	44.4	44.8	37.2
19	37956 292	1	87.0	87.4	87.4	84.1	1	29	44.3	45.2	37.5
20	37957 293	1	86.0	87.6	87.6	84.2	1	28	44.0	45.6	37.8
21	37958 294	1	87.0	87.8	87.9	84.5	1	32	43.2	46.0	38.2
22	37959 295	1	85.0	87.9	88.2	84.6	1	41	42.7	46.4	38.7
23	37960 296	1	84.0	87.9	88.4	84.8	1	43	42.3	46.8	39.1
24	37961 297	1	89.0	88.0	88.6	85.0	1	41	41.9	47.1	39.5
25	37962 298	1	87.0	88.2	88.7	85.2	1	43	41.9	47.0	39.8
26	37963 299	1	87.0	88.2	88.6	85.4	1	43	42.3	46.9	40.3
27	37964 300	1	84.0	88.1	88.4	85.6	1	40	42.1	46.1	40.7
28	37965 301	1	83.0	86.0	88.1	85.7	1	31	41.3	45.1	41.0
29	37966 302	1	80.0	87.8	87.8	85.8	1	15	40.4	43.7	41.1
30	37967 303	1	83.0	87.8	87.5	85.9	1	20	40.4	42.6	41.3
31	37968 304	1	81.0	87.7	87.1	86.0	1	23	40.6	41.8	41.6

MONTHLY AVERAGE 87.3  
MONTHLY SMOOTHED 84.2

39.5  
30.6

NOVEMBER 1962

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37969 305	2.333	2.000	1.333	2.333	1.333	1.333	2.667	3.000	16.333	2.042
2	37970 306	3.000	2.667	1.000	2.000	3.333	2.667	3.333	4.333	22.333	2.792
3	37971 307	3.667	2.000	2.333	3.000	2.333	2.667	3.333	3.667	23.000	2.875
4	37972 308	3.000	2.667	3.000	2.667	3.000	3.667	3.000	5.000	26.000	3.250
5	37973 309	1.667	1.333	3.333	2.000	1.000	.333	.667	1.000	11.333	1.417
6	37974 310	3.000	1.333	3.000	2.000	2.667	3.667	4.667	5.000	24.333	3.542
7	37975 311	4.333	3.667	.667	3.667	3.333	.667	1.333	2.667	20.333	2.542
8	37976 312	2.333	1.667	1.667	2.000	2.333	2.667	2.000	1.667	16.333	2.042
9	37977 313	1.667	1.000	.667	.000	.333	.667	1.000	3.000	8.333	1.042
10	37978 314	2.000	1.667	1.000	.000	.333	.667	1.333	1.667	8.667	1.083
11	37979 315	1.333	2.667	3.333	2.667	2.667	3.000	2.000	2.000	19.667	2.458
12	37980 316	2.333	1.000	.667	.333	.000	.333	1.000	1.333	7.000	.875
13	37981 317	1.333	.000	.333	.333	.333	1.000	.667	.667	4.667	.583
14	37982 318	1.000	.333	.000	.333	.333	1.667	4.333	2.000	10.000	1.250
15	37983 319	1.000	3.000	3.667	4.000	5.667	2.667	4.333	4.333	28.667	3.583
16	37984 320	5.667	4.000	3.667	3.667	3.667	4.000	3.333	2.667	30.667	3.833
17	37985 321	3.000	3.000	1.333	1.333	2.333	2.333	.333	.000	13.667	1.708
18	37986 322	.000	.000	.000	.000	.000	.333	1.000	1.333	2.667	.333
19	37987 323	.000	.000	.000	.667	.333	.667	3.000	2.333	7.000	.875
20	37988 324	.333	1.000	2.333	.667	.667	1.000	.333	1.000	7.333	.917
21	37989 325	2.333	2.333	4.667	3.000	3.333	3.667	3.333	3.667	26.333	3.272
22	37990 326	4.333	4.667	5.000	4.667	4.000	4.333	4.000	5.000	36.000	4.500
23	37991 327	4.333	3.333	3.333	4.000	3.333	3.000	2.667	3.333	27.333	3.417
24	37992 328	2.667	2.667	3.667	4.000	3.000	2.667	3.000	2.667	24.333	3.042
25	37993 329	3.000	3.667	3.667	4.333	3.333	3.333	2.000	3.000	26.333	3.292
26	37994 330	3.000	1.667	1.333	1.333	2.000	1.667	1.333	.667	13.000	1.625
27	37995 331	2.000	2.000	2.333	1.333	1.333	3.333	2.667	2.333	17.333	2.167
28	37996 332	2.667	2.333	2.333	2.333	1.667	1.667	1.000	.667	14.667	1.833
29	37997 333	1.333	.000	2.000	2.667	2.333	1.667	3.667	2.000	15.667	1.958
30	37998 334	5.000	5.333	4.667	4.667	4.000	2.000	2.000	3.667	31.333	3.917

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

287

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

[illegible]

MONTHLY AVERAGE	34.5
MONTHLY SMOOTHED	33.0

DECEMBER 1962

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	37999 335	3.000	2.000	.667	1.000	2.000	1.000	2.000	2.667	.333	13.667	1.708
2	38000 336	.000	.667	.667	1.000	1.333	.667	1.333	1.333	1.000	6.667	.833
3	38001 337	.000	1.667	.333	.333	.667	.667	1.000	2.667	.000	6.667	.833
4	38002 338	.000	3.333	3.333	3.333	4.000	4.000	4.000	3.000	2.000	23.567	2.958
5	38003 339	3.667	1.333	1.667	1.333	1.667	2.333	1.667	.667	.667	13.333	1.667
6	38004 340	1.667	1.000	.333	1.333	.333	.333	.333	1.000	.333	6.333	.792
7	38005 341	.667	1.000	.667	.667	.667	.667	.667	1.333	1.333	7.000	.875
8	38006 342	1.333	.333	2.333	2.333	2.667	2.000	1.667	1.000	2.333	13.667	1.708
9	38007 343	2.333	3.667	2.000	1.333	.333	.333	.333	.333	1.333	11.667	1.458
10	38008 344	1.333	1.667	1.333	1.333	.333	.667	1.333	1.667	3.667	12.000	1.500
11	38009 345	3.000	4.000	3.000	2.667	2.667	3.667	3.333	5.333	4.333	29.333	3.667
12	38010 346	3.000	3.333	.667	1.333	1.333	.333	2.000	3.333	3.667	17.333	2.167
13	38011 347	4.000	3.333	2.333	2.333	2.333	3.333	2.333	2.667	3.667	24.000	3.000
14	38012 348	2.667	3.333	2.000	3.000	3.000	3.000	2.667	2.667	2.667	22.000	2.750
15	38013 349	3.000	3.667	3.667	3.667	1.667	.667	.667	.667	2.333	17.333	2.167
16	38014 350	1.000	.667	1.333	1.333	1.333	1.667	1.333	1.333	1.000	9.667	1.203
17	38015 351	2.667	1.667	2.667	2.667	2.667	2.333	6.000	5.000	6.667	29.667	3.708
18	38016 352	6.333	5.000	3.000	3.000	3.333	4.667	4.667	5.000	5.000	37.000	4.625
19	38017 353	5.333	4.667	5.333	5.333	4.667	4.000	4.667	5.000	4.333	38.000	4.750
20	38018 354	3.667	5.000	4.000	4.000	4.000	4.000	4.667	4.667	5.000	35.000	4.375
21	38019 355	4.000	3.667	3.667	3.667	3.000	3.667	3.667	4.333	3.333	28.333	3.667
22	38020 356	2.667	2.667	2.333	2.333	2.667	2.000	2.667	2.333	2.667	20.000	2.500
23	38021 357	2.000	2.000	1.000	1.000	1.000	.333	.333	.000	.333	7.000	.875
24	38022 358	.667	.000	1.667	1.000	1.000	1.000	1.333	1.667	1.333	9.667	1.208
25	38023 359	2.000	1.000	.000	.000	1.333	.667	.667	.667	1.333	7.667	.958
26	38024 360	1.667	1.333	2.333	2.333	3.333	4.667	3.667	2.667	3.667	23.333	2.917
27	38025 361	2.000	1.000	1.333	1.333	1.000	1.667	1.333	1.667	2.667	12.667	1.583
28	38026 362	.667	.333	.333	.667	.667	2.000	2.000	2.000	2.000	9.667	1.208
29	38027 363	1.000	2.000	1.000	1.000	1.000	1.667	2.000	.667	1.000	10.333	1.292
30	38028 364	1.000	.000	.333	.333	1.000	.667	.333	1.300	2.667	7.000	.875
31	38029 365	2.333	.667	1.333	1.333	4.000	3.667	3.333	2.000	1.000	18.333	2.292



DECEMBER 1962

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY		MOD.		DAY		AP								MAGNETIC	
OF		JULIAN		OF		AP		AP		AP		AP		CHARACTER	
MONTH	DAY	YEAR	1	2	3	4	5	6	7	8	AP	AP	AP	AP	
1	37999	335	15	7	3	7	4	7	12	2	7.125			.4	
2	38000	336	0	3	3	4	3	5	5	4	3.375			.0	
3	38001	337	0	6	2	2	3	4	12	0	3.625			.2	
4	38002	338	0	18	18	27	27	27	15	7	17.375			1.2	
5	38003	339	22	5	5	6	9	6	3	3	7.375			.3	
6	38004	340	6	4	5	2	2	2	4	2	3.375			.1	
7	38005	341	3	4	3	3	3	3	5	5	3.625			.1	
8	38006	342	5	2	9	12	7	6	4	9	6.750			.3	
9	38007	343	9	22	7	5	2	2	2	5	6.750			.3	
10	38008	344	5	6	5	2	3	5	6	22	6.750			.4	
11	38009	345	15	27	15	12	22	18	56	32	24.625			1.4	
12	38010	346	15	15	3	5	2	7	18	22	10.875			.0	
13	38011	347	27	18	9	9	18	9	12	22	15.500			1.1	
14	38012	348	12	18	7	15	15	12	12	12	12.875			.8	
15	38013	349	15	22	22	6	3	3	6	9	10.750			.4	
16	38014	350	4	3	5	5	6	5	5	4	4.625			.1	
17	38015	351	12	6	12	12	9	80	48	111	36.250			1.5	
18	38016	352	94	48	15	10	39	39	48	48	43.625			1.5	
19	38017	353	56	39	56	39	27	37	48	32	42.000			1.5	
20	38018	354	22	48	27	27	27	39	39	48	34.625			1.5	
21	38019	355	27	22	22	15	22	22	32	18	22.500			1.3	
22	38020	356	12	12	9	12	7	12	9	12	10.625			.6	
23	38021	357	7	7	4	4	2	2	0	2	3.500			.0	
24	38022	358	3	0	6	4	7	5	6	5	4.500			.2	
25	38023	359	7	4	0	5	3	3	3	5	3.750			.1	
26	38024	360	6	5	9	18	39	22	12	22	16.625			1.2	
27	38025	361	7	4	5	4	6	5	6	12	6.125			.5	
28	38026	362	3	2	0	3	7	7	7	7	4.500			.4	
29	38027	363	4	7	4	4	6	7	3	4	4.875			.2	
30	38028	364	4	0	2	4	3	2	4	12	3.875			.2	
31	38029	365	9	3	5	27	22	16	7	4	11.875			.9	

DAILY SOLAR FLUX AND RELATIVE ZÜRICH SUNSPOT NUMBER ACTIVITY

MONTHLY AVERAGE	60.5
MONTHLY SMOOTHED	82.3

JANUARY 1963

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38030	1	.667	1.667	1.000	1.000	1.667	1.000	1.000	10.000	1.250
2	38031	2	.000	.000	.000	.333	1.000	.333	.333	2.000	.250
3	38032	3	.000	1.000	.333	.667	.333	.333	.333	3.333	.417
4	38033	4	2.000	1.000	.333	.667	2.667	2.667	1.000	13.667	1.708
5	38034	5	.000	.667	2.000	1.333	1.333	.333	.000	6.667	.833
6	38035	6	.000	.000	.000	.000	.333	.000	.000	.333	.042
7	38036	7	2.000	2.333	1.333	.667	1.000	3.333	.333	12.667	1.583
8	38037	8	.000	.000	1.000	1.000	.000	1.000	1.333	4.667	.583
9	38038	9	.000	.000	.000	.000	.333	.000	.333	.667	.083
10	38039	10	1.000	1.000	1.000	.333	1.000	.333	.667	5.333	.667
11	38040	11	.000	.000	.667	.667	2.333	2.000	3.667	11.000	1.375
12	38041	12	.333	1.667	.667	.667	.333	1.667	3.000	9.000	1.125
13	38042	13	4.667	5.333	4.000	4.667	3.333	3.667	3.667	32.000	4.000
14	38043	14	3.333	3.667	4.000	5.000	4.667	5.000	3.333	33.000	4.125
15	38044	15	3.667	5.000	5.333	4.000	3.333	3.000	2.333	29.000	3.625
16	38045	16	4.000	2.000	3.667	3.000	4.333	4.333	4.000	29.667	3.708
17	38046	17	3.000	4.000	4.667	2.333	2.333	3.000	2.667	26.000	3.250
18	38047	18	2.667	2.667	2.333	2.667	2.333	2.667	4.667	22.667	2.833
19	38048	19	3.333	2.667	3.667	3.667	4.000	2.333	3.333	27.000	3.375
20	38049	20	2.333	.667	2.667	2.333	2.000	.667	1.000	12.667	1.583
21	38050	21	.333	1.000	.667	1.667	.667	.333	.667	5.667	.708
22	38051	22	1.333	1.000	1.667	1.000	.667	2.000	1.333	10.000	1.250
23	38052	23	2.667	2.667	2.667	1.333	2.333	1.667	2.333	17.000	2.125
24	38053	24	1.333	1.667	1.667	2.333	1.000	2.667	4.333	17.000	2.125
25	38054	25	2.667	2.667	1.333	1.000	1.333	2.000	2.333	14.333	1.792
26	38055	26	.333	.667	1.000	1.000	.000	.667	.333	4.000	.500
27	38056	27	.000	.000	.000	1.000	.333	.333	.000	1.667	.208
28	38057	28	.333	.667	.333	.333	.000	.000	.667	2.667	.333
29	38058	29	.000	.000	.000	.667	1.000	2.333	3.333	8.000	1.000
30	38059	30	3.333	4.000	4.000	4.333	4.333	4.333	5.000	32.667	4.083
31	38060	31	5.333	5.667	5.333	4.667	4.667	4.000	1.667	36.667	4.583

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

293



FEBRUARY 1963

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG, KP
1	38061	32	1.000	.333	2.667	3.000	3.667	2.667	2.667	4.000	20.000	2.500
2	38062	33	.333	.667	.333	.667	.333	.333	1.333	.000	4.000	.500
3	38063	34	.333	1.000	.333	.333	1.000	1.333	1.000	.333	5.667	.708
4	38064	35	.000	.000	.000	.000	.333	1.333	2.667	1.667	6.000	.750
5	38065	36	.000	.333	1.000	1.000	1.667	1.333	.667	.667	5.667	.833
6	38066	37	1.333	1.333	.667	.667	.667	1.000	.667	.333	6.667	.833
7	38067	38	.000	.667	1.000	1.333	.333	.000	1.333	1.667	6.333	.792
8	38068	39	.000	.333	.000	.333	.000	.000	.000	.333	1.000	.125
9	38069	40	.000	.000	.000	.333	.667	1.000	2.333	5.000	9.333	1.167
10	38070	41	5.667	5.000	5.667	4.333	5.000	3.333	4.333	5.000	38.333	4.792
11	38071	42	3.333	4.000	3.333	3.000	3.333	3.667	4.000	3.667	28.333	3.542
12	38072	43	4.333	4.333	4.667	3.000	2.000	2.333	3.000	3.333	27.000	3.375
13	38073	44	3.667	3.667	4.333	3.333	3.667	4.667	5.000	3.000	31.333	3.917
14	38074	45	3.333	3.333	5.333	3.000	2.667	2.667	2.667	2.000	25.000	3.125
15	38075	46	2.333	1.333	2.000	2.333	3.000	1.667	2.000	.667	15.333	1.917
16	38076	47	1.000	.000	.667	1.333	1.333	3.000	.333	.333	8.000	1.000
17	38077	48	.000	1.333	1.000	1.667	.667	1.000	.667	.667	7.000	.875
18	38078	49	.333	.000	.667	.667	1.000	1.333	.667	.333	5.000	.625
19	38079	50	.000	.000	.000	.667	.667	.333	.333	1.000	3.000	.375
20	38080	51	1.333	1.333	2.333	2.333	2.000	1.667	2.667	3.667	17.333	2.167
21	38081	52	1.667	.333	1.000	1.333	1.000	2.667	1.667	2.333	12.000	1.500
22	38082	53	.333	2.000	2.333	2.000	1.000	1.667	2.333	2.000	13.667	1.708
23	38083	54	.000	.333	2.333	2.333	2.000	2.667	1.333	.333	11.333	1.417
24	38084	55	.000	.000	.333	.667	.333	.333	.333	1.333	3.333	.417
25	38085	56	2.333	1.333	.667	.667	1.000	1.000	.667	.333	8.000	1.000
26	38086	57	.333	1.333	1.667	1.667	2.333	1.667	.333	1.333	10.667	1.333
27	38087	58	1.333	.000	.000	.333	.000	.000	.667	1.000	3.333	.417
28	38088	59	1.000	2.000	1.333	1.667	3.000	.667	.333	2.667	12.667	1.503

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

FEBRUARY 1963

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	DAILY 27-DAY	54-DAY	81-DAY	1	DAILY 27-DAY	54-DAY	81-DAY	1	RELATIVE ZURICH SUNSPOT NUMBER	1	RELATIVE ZURICH SUNSPOT NUMBER	1	RELATIVE ZURICH SUNSPOT NUMBER
1	38061	32	1	88.0	79.4	79.3	80.9	1	30	18.5	19.1	24.1	1	24.1	1	24.1
2	38062	33	1	87.0	79.6	79.3	80.9	1	25	19.1	19.3	23.8	1	23.8	1	23.8
3	38063	34	1	85.0	80.1	79.4	80.7	1	44	20.5	19.7	23.7	1	23.7	1	23.7
4	38064	35	1	80.0	80.5	79.6	80.6	1	53	22.2	20.5	23.6	1	23.6	1	23.6
5	38065	36	1	87.0	80.8	79.8	80.4	1	47	23.7	21.1	23.1	1	23.1	1	23.1
6	38066	37	1	85.0	80.9	79.9	80.3	1	50	25.2	21.5	22.9	1	22.9	1	22.9
7	38067	38	1	83.0	81.0	80.0	80.2	1	48	26.7	22.2	22.8	1	22.8	1	22.8
8	38068	39	1	82.0	81.1	80.1	80.1	1	40	27.9	22.9	22.7	1	22.7	1	22.7
9	38069	40	1	80.0	81.1	80.1	80.1	1	32	28.7	23.3	22.8	1	22.8	1	22.8
10	38070	41	1	79.0	80.8	80.1	80.0	1	21	28.3	23.2	22.8	1	22.8	1	22.8
11	38071	42	1	76.0	80.5	79.9	80.0	1	18	27.3	22.9	22.9	1	22.9	1	22.9
12	38072	43	1	74.0	80.1	79.6	80.0	1	16	26.4	22.4	23.1	1	23.1	1	23.1
13	38073	44	1	74.0	79.8	79.4	79.9	1	9	25.3	21.9	23.0	1	23.0	1	23.0
14	38074	45	1	75.0	79.6	79.3	79.8	1	16	25.1	21.7	22.9	1	22.9	1	22.9
15	38075	46	1	76.0	79.5	79.2	79.8	1	17	25.0	21.6	22.9	1	22.9	1	22.9
16	38076	47	1	77.0	79.5	79.1	79.8	1	16	25.0	21.3	22.9	1	22.9	1	22.9
17	38077	48	1	79.0	79.6	79.1	79.9	1	18	25.1	21.2	22.9	1	22.9	1	22.9
18	38078	49	1	81.0	79.8	79.2	80.0	1	16	25.4	21.2	23.0	1	23.0	1	23.0
19	38079	50	1	79.0	80.0	79.3	80.0	1	20	25.5	21.6	23.1	1	23.1	1	23.1
20	38080	51	1	77.0	80.1	79.3	80.0	1	20	25.7	21.8	23.0	1	23.0	1	23.0
21	38081	52	1	74.0	80.1	79.3	79.9	1	20	25.8	22.2	22.9	1	22.9	1	22.9
22	38082	53	1	76.0	80.2	79.3	79.8	1	20	26.3	22.5	22.7	1	22.7	1	22.7
23	38083	54	1	75.0	80.0	79.3	79.7	1	22	26.6	22.8	22.4	1	22.4	1	22.4
24	38084	55	1	76.0	79.8	79.3	79.6	1	20	26.1	22.8	22.1	1	22.1	1	22.1
25	38085	56	1	78.0	79.7	79.3	79.5	1	16	25.7	22.5	21.7	1	21.7	1	21.7
26	38086	57	1	77.0	79.7	79.3	79.4	1	11	25.3	22.1	21.2	1	21.2	1	21.2
27	38087	58	1	75.0	79.4	79.2	79.2	1	17	25.3	21.8	21.1	1	21.1	1	21.1
28	38088	59	1	74.0	78.9	79.1	79.1	1	0	24.1	21.3	20.8	1	20.8	1	20.8
MONTHLY AVERAGE											24.4					
MONTHLY SMOOTHED											29.8					



MARCH 1963

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOO. DAY JULIAN YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38089	60	2.333	4.000	2.333	2.000	3.667	2.333	2.667	23.333	2.917
2	38090	61	2.000	1.667	2.333	2.000	1.333	1.333	.667	13.333	1.667
3	38091	62	.667	1.667	3.333	2.000	2.333	1.333	2.333	15.000	1.875
4	38092	63	1.000	.667	1.000	.667	.667	1.000	.667	6.667	.833
5	38093	64	.000	1.000	1.000	.667	.000	1.333	1.333	6.333	.792
6	38094	65	1.000	2.000	.667	.333	2.000	2.000	1.667	10.333	1.292
7	38095	66	.667	2.000	.333	.000	.333	2.333	5.000	10.667	1.333
8	38096	67	4.000	3.333	4.667	5.333	4.000	4.333	3.333	33.333	4.167
9	38097	68	3.000	4.333	3.333	3.000	2.667	2.333	4.333	26.000	3.250
10	38098	69	3.333	4.000	4.333	4.000	5.000	6.333	4.667	37.667	4.708
11	38099	70	4.667	3.667	2.333	2.667	3.333	4.333	3.000	26.667	3.333
12	38100	71	3.667	3.333	2.333	2.667	2.333	2.333	.667	20.000	2.500
13	38101	72	.000	.333	1.667	1.667	3.333	2.000	1.333	14.000	1.750
14	38102	73	1.667	.000	.000	.333	.000	.333	1.000	3.667	.458
15	38103	74	1.333	1.667	.333	.333	.000	.667	.000	4.667	.583
16	38104	75	.000	.000	.667	.333	.000	.333	.667	2.333	.292
17	38105	76	.333	.000	.000	.333	.667	1.333	2.333	7.000	.875
18	38106	77	.667	1.667	1.667	1.333	2.000	1.000	1.667	12.000	1.500
19	38107	78	1.667	3.000	1.667	1.000	1.000	1.667	2.667	14.333	1.792
20	38108	79	1.000	1.000	.667	.667	.333	1.667	2.667	8.333	1.042
21	38109	80	1.333	1.667	2.000	.333	.333	.333	.000	6.333	.792
22	38110	81	.000	.000	.000	.667	.667	.667	.667	3.667	.458
23	38111	82	1.667	1.667	1.667	4.000	3.667	1.333	1.333	18.000	2.250
24	38112	83	1.000	.333	.000	1.667	1.667	1.333	2.000	9.667	1.208
25	38113	84	1.667	.333	.333	.667	.333	1.000	.667	6.000	.750
26	38114	85	.000	.000	.000	.333	.667	1.667	.333	3.667	.458
27	38115	86	.000	.000	.333	.333	.000	.667	.000	1.667	.208
28	38116	87	.000	.333	1.333	1.667	1.000	.667	1.667	8.333	1.042
29	38117	88	2.000	2.000	1.000	1.667	2.000	.667	1.000	11.000	1.375
30	38118	89	.667	.333	.667	1.333	.000	1.000	.667	5.000	.625
31	38119	90	.000	.667	1.000	1.000	.333	.667	2.333	7.000	.875

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

299

MARCH 1963

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY
1	38089	60	74.0	78.4	79.1	79.0	1	0	23.2
2	38090	61	75.0	76.0	79.0	76.9	1	0	21.6
3	38091	62	78.0	77.6	79.1	79.0	1	8	19.9
4	38092	63	80.0	77.4	79.1	79.0	1	14	18.7
5	38093	64	82.0	77.3	79.1	79.0	1	22	17.7
6	38094	65	85.0	77.3	79.1	79.1	1	32	17.1
7	38095	66	84.0	77.4	79.2	79.2	1	35	16.9
8	38096	67	83.0	77.5	79.3	79.3	1	29	16.8
9	38097	68	82.0	77.6	79.2	79.2	1	32	17.2
10	38098	69	80.0	77.8	79.1	79.2	1	34	17.8
11	38099	70	79.0	77.9	79.0	79.1	1	23	18.0
12	38100	71	76.0	78.0	78.9	79.0	1	18	18.4
13	38101	72	74.0	78.0	78.8	78.8	1	17	18.4
14	38102	73	80.0	78.1	78.8	78.8	1	24	18.7
15	38103	74	80.0	78.2	78.9	78.8	1	15	18.6
16	38104	75	79.0	78.2	78.9	78.8	1	8	18.3
17	38105	76	79.0	78.1	79.0	78.9	1	13	18.1
18	38106	77	80.0	78.2	79.1	78.9	1	19	18.1
19	38107	78	77.0	78.2	79.1	79.0	1	12	17.8
20	38108	79	77.0	78.3	79.2	79.0	1	13	17.6
21	38109	80	76.0	78.3	79.2	79.0	1	13	17.3
22	38110	81	76.0	78.3	79.1	79.0	1	16	17.1
23	38111	82	75.0	78.3	79.0	79.0	1	17	17.0
24	38112	83	75.0	78.2	79.0	78.9	1	19	17.1
25	38113	84	75.0	78.1	78.9	78.9	1	10	17.0
26	38114	85	73.0	78.0	78.7	78.8	1	16	17.0
27	38115	86	74.0	78.0	78.4	78.8	1	15	17.6
28	38116	87	73.0	78.0	78.2	78.7	1	7	17.8
29	38117	88	75.0	78.0	78.0	76.7	1	12	18.3
30	38118	89	74.0	77.9	77.7	78.7	1	17	18.6
31	38119	90	71.0	77.5	77.4	78.6	1	19	18.8

MONTHLY AVERAGE 77.4  
MONTHLY SMOOTHED 81.7

17.1  
29.8

APRIL 1963

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38120 91	3.333	4.667	3.667	2.000	2.000	1.333	.333	.000	17.333	2.167
2	38121 92	1.000	.667	.000	.333	.667	1.667	2.000	1.667	8.000	1.000
3	38122 93	2.667	1.333	1.333	1.000	.333	.667	.667	.333	8.333	1.042
4	38123 94	.667	1.667	2.333	3.333	3.667	4.000	4.333	4.333	24.333	3.042
5	38124 95	5.333	5.667	4.000	3.333	3.667	4.000	4.000	3.000	33.000	4.125
6	38125 96	2.667	3.000	4.667	3.667	3.333	2.667	3.000	3.333	26.333	3.292
7	38126 97	2.667	2.667	3.667	3.000	3.000	3.000	1.000	3.000	22.667	2.833
8	38127 98	3.000	1.333	.667	2.333	2.000	1.667	2.000	1.333	14.333	1.792
9	38128 99	.667	3.333	2.000	1.333	1.667	2.000	2.000	1.000	14.000	1.750
10	38129 100	.000	.000	.333	.333	1.000	.667	1.000	.333	3.667	.458
11	38130 101	.333	.000	.667	2.000	.333	.333	1.000	1.000	5.667	.708
12	38131 102	2.667	1.000	2.000	2.667	2.667	2.000	2.333	2.000	17.333	2.167
13	38132 103	1.667	1.667	1.000	2.667	2.000	2.333	2.667	3.000	18.000	2.250
14	38133 104	3.667	2.000	1.000	2.333	3.333	4.000	3.000	4.333	23.667	2.956
15	38134 105	4.667	3.333	4.000	2.667	2.667	1.000	1.667	1.333	21.333	2.667
16	38135 106	2.667	2.000	1.000	1.000	.667	1.333	2.000	1.333	12.000	1.500
17	38136 107	3.333	2.000	1.000	1.000	1.333	1.667	1.333	1.000	12.667	1.583
18	38137 108	1.000	.667	1.000	1.667	3.333	3.667	4.000	4.333	19.667	2.458
19	38138 109	3.000	3.333	2.333	1.333	1.667	3.333	2.000	1.667	18.667	2.333
20	38139 110	3.333	1.667	2.000	1.333	2.000	2.000	1.000	.333	13.667	1.708
21	38140 111	.000	.667	.000	1.667	1.667	1.000	1.000	1.333	7.333	.917
22	38141 112	3.333	.667	.333	1.000	1.000	1.333	3.667	4.000	15.333	1.917
23	38142 113	2.333	4.000	3.667	1.333	1.333	1.000	.667	.000	14.333	1.792
24	38143 114	.000	.333	.333	.667	1.000	.667	1.000	.667	4.333	.542
25	38144 115	1.333	1.667	1.333	.000	.333	.333	1.000	2.000	6.000	1.000
26	38145 116	1.667	2.333	.667	.333	.667	1.000	1.667	2.333	10.667	1.333
27	38146 117	1.667	2.000	2.000	2.333	2.667	2.667	3.667	.667	17.667	2.208
28	38147 118	.333	.000	.667	1.333	1.000	1.000	1.000	1.000	6.333	.792
29	38148 119	.667	2.000	1.000	1.000	.333	1.000	1.000	.667	7.667	.956
30	38149 120	1.000	.667	.667	1.667	1.667	4.667	6.333	4.333	21.000	2.625

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

APRIL 1963

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. DAY JULIAN OF DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS---	1---RUNNING MEANS---
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY 54-DAY 81-DAY
1	38120 91	73.0	77.2	78.5	15 18.5 18.1 20.5
2	38121 92	73.0	76.7	78.3	25 18.3 17.7 20.7
3	38122 93	74.0	76.4	78.3	28 18.0 17.4 20.9
4	38123 94	70.0	75.9	76.2	17 17.6 17.2 21.0
5	38124 95	72.0	75.5	78.0	23 17.2 17.2 20.9
6	38125 96	77.0	75.4	77.9	50 17.8 17.3 21.0
7	38126 97	80.0	75.5	77.9	50 18.8 18.4 21.1
8	38127 98	80.0	75.6	77.8	63 20.5 19.4 21.4
9	38128 99	82.0	75.9	77.8	59 21.9 20.1 21.8
10	38129 100	82.0	76.0	77.9	59 23.2 20.9 22.3
11	38130 101	68.0	76.3	77.3	48 24.4 21.5 22.7
12	38131 102	93.0	76.8	78.2	63 26.4 22.4 23.3
13	38132 103	88.0	77.1	78.4	56 28.0 23.1 23.9
14	38133 104	86.0	77.4	78.5	45 29.0 23.6 24.2
15	38134 105	87.0	77.7	78.7	50 30.4 24.1 24.6
16	38135 106	86.0	78.1	78.9	50 31.8 24.7 25.0
17	38136 107	86.0	78.5	79.0	41 32.8 25.1 25.5
18	38137 108	88.0	79.0	79.1	34 33.5 25.3 25.7
19	38138 109	84.0	79.3	79.1	28 33.9 25.4 25.6
20	38139 110	73.0	79.4	79.1	19 33.9 25.5 25.6
21	38140 111	74.0	79.4	79.0	10 33.9 25.5 25.4
22	38141 112	71.0	79.3	78.9	0 33.3 25.1 25.2
23	38142 113	71.0	79.2	78.6	0 32.7 25.1 24.8
24	38143 114	72.0	79.1	78.5	0 32.5 25.1 24.5
25	38144 115	72.0	79.0	78.5	0 32.0 25.1 24.0
26	38145 116	71.0	78.9	78.4	0 31.4 25.0 23.3
27	38146 117	74.0	79.0	78.0	0 30.7 24.7 22.7
28	38147 118	77.0	79.2	77.9	7 30.4 24.5 22.2
29	38148 119	77.0	79.3	77.8	16 30.1 24.2 21.8
30	38149 120	80.0	79.6	77.8	26 30.0 24.0 21.6

MONTHLY AVERAGE 76.9  
MONTHLY SMOOTHED 81.4

29.3  
29.1

MAY 1963

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38150 121	6.000	5.000	4.667	4.667	3.333	4.000	2.000	3.667	33.333	4.167
2	38151 122	4.000	3.667	3.667	4.333	3.333	4.333	2.667	4.000	30.000	3.750
3	38152 123	3.667	2.333	2.667	2.333	2.667	3.333	2.667	3.667	23.333	2.917
4	38153 124	3.667	3.333	4.000	4.333	2.667	3.333	2.333	3.000	26.667	3.333
5	38154 125	2.667	3.333	2.667	2.000	1.333	2.667	1.667	1.333	17.667	2.208
6	38155 126	2.333	3.667	2.333	1.333	1.333	1.333	2.333	1.667	16.333	2.042
7	38156 127	.667	.667	1.333	2.667	1.333	1.333	1.667	2.000	11.667	1.458
8	38157 128	2.667	2.333	2.667	2.000	2.000	1.667	2.000	3.667	19.000	2.375
9	38158 129	2.333	3.333	3.667	2.667	2.333	2.000	3.333	3.333	23.000	2.875
10	38159 130	2.667	2.667	2.667	2.667	2.333	3.333	3.333	3.333	23.000	2.875
11	38160 131	4.333	3.667	2.333	3.000	3.667	2.000	3.000	3.333	25.333	3.167
12	38161 132	2.667	1.667	2.667	1.000	2.333	2.667	2.667	2.000	17.667	2.208
13	38162 133	3.333	5.000	3.667	4.000	3.667	2.333	2.667	3.333	28.000	3.500
14	38163 134	3.333	3.667	3.667	2.667	1.667	.667	1.667	2.000	19.333	2.417
15	38164 135	1.333	1.667	2.667	.667	1.333	.667	1.000	1.667	11.000	1.375
16	38165 136	3.000	.333	.333	.000	.333	.333	.333	1.000	5.667	.708
17	38166 137	.667	.667	1.000	1.667	2.333	2.333	2.667	1.333	12.667	1.583
18	38167 138	.667	.333	.333	.667	1.667	2.000	.667	.000	8.333	.792
19	38168 139	.000	.333	1.000	.667	1.667	1.667	1.667	2.667	9.667	1.208
20	38169 140	4.000	3.000	1.667	.667	.667	.333	.333	.667	11.333	1.417
21	38170 141	.667	1.000	.333	.333	1.000	1.000	3.000	.667	8.000	1.000
22	38171 142	.333	.667	.667	.667	1.000	1.000	.333	.333	5.000	.625
23	38172 143	.000	.333	.667	1.333	1.000	.667	.667	.333	5.000	.625
24	38173 144	.000	.333	.333	.333	.667	.667	.333	.000	2.667	.333
25	38174 145	1.667	1.333	1.667	2.000	3.333	2.000	2.333	1.667	16.000	2.000
26	38175 146	3.000	2.000	1.000	1.000	1.000	1.000	1.333	2.000	12.333	1.542
27	38176 147	1.333	1.000	.667	1.000	2.000	2.333	2.667	2.667	13.667	1.708
28	38177 148	3.667	4.000	4.000	4.000	2.000	2.333	1.667	2.500	23.000	2.875
29	38178 149	4.667	5.667	3.667	1.667	2.333	1.000	3.000	1.000	23.000	2.875
30	38179 150	3.000	3.667	4.000	2.667	1.000	1.333	2.000	.667	19.333	2.292
31	38180 151	.000	1.333	1.333	2.000	2.667	1.667	3.000	3.667	15.667	1.958

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER											
			1	2	3	4	5	6	7	8	AP	AVG	AP	
1	38150	121	80	48	39	39	18	27	7	22	35.000	1.5		
2	38151	122	27	22	22	32	18	32	12	27	24.000	1.3		
3	38152	123	22	9	12	9	18	12	12	22	14.500	1.0		
4	38153	124	22	18	27	32	12	18	9	15	19.125	1.2		
5	38154	125	12	18	12	7	5	12	6	5	9.625	.6		
6	38155	126	9	22	9	5	5	5	9	6	8.750	.6		
7	38156	127	3	3	5	12	5	5	6	7	5.750	.4		
8	38157	128	12	9	12	7	7	6	7	22	10.250	.9		
9	38158	129	9	18	22	12	7	7	18	18	14.125	1.0		
10	38159	130	12	12	12	12	9	18	18	18	13.875	1.0		
11	38160	131	32	22	9	15	22	7	15	18	17.500	1.1		
12	38161	132	12	6	12	4	9	12	12	7	9.250	.8		
13	38162	133	18	48	22	27	22	9	12	18	22.000	1.3		
14	38163	134	18	22	22	12	6	3	6	7	12.000	.9		
15	38164	135	5	6	12	3	5	3	4	6	5.500	.3		
16	38165	136	15	2	2	0	2	2	2	4	3.625	.2		
17	38166	137	3	3	4	6	9	9	12	5	6.375	.5		
18	38167	138	3	2	2	3	6	7	3	0	3.250	.3		
19	38168	139	0	2	4	3	6	6	6	12	4.875	.4		
20	38169	140	27	15	6	3	3	2	2	3	7.625	.4		
21	38170	141	3	4	2	2	4	4	15	3	4.625	.4		
22	38171	142	3	3	3	3	4	4	2	2	2.875	.1		
23	38172	143	0	2	3	5	4	3	3	2	2.750	.1		
24	38173	144	0	2	2	2	3	3	2	0	1.750	.0		
25	38174	145	6	5	6	7	18	7	9	6	8.000	.7		
26	38175	146	15	7	4	4	4	4	5	7	6.250	.4		
27	38176	147	5	4	3	4	7	9	12	12	7.000	.5		
28	38177	148	22	27	27	22	7	7	6	7	15.625	1.0		
29	38178	149	34	67	22	6	9	4	15	4	20.750	1.0		
30	38179	150	15	22	27	12	1	5	7	3	11.875	.7		
31	38180	151	0	5	5	7	12	6	15	22	19.000	.8		



MAY 1963

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	DAILY 27-DAY	54-DAY	81-DAY		
1	38150 121	81.0	80.0	77.9	77.8	1	23	30.2	23.9	21.5
2	38151 122	81.0	80.3	77.9	77.6	1	22	30.2	23.7	21.5
3	38152 123	81.0	80.4	77.9	77.9	1	24	29.2	23.5	21.6
4	38153 124	82.0	80.5	78.0	78.0	1	20	28.1	23.5	21.7
5	38154 125	84.0	80.7	78.1	78.1	1	26	26.7	23.6	21.9
6	38155 126	86.0	80.8	78.4	78.2	1	43	26.3	24.1	22.2
7	38156 127	86.0	81.0	78.5	78.4	1	46	25.8	24.5	22.6
8	38157 128	86.0	81.0	78.6	78.5	1	55	26.1	25.2	23.0
9	38158 129	86.0	80.8	78.8	78.6	1	48	25.5	26.0	23.4
10	38159 130	87.0	80.7	78.9	78.7	1	64	25.8	26.9	24.0
11	38160 131	84.0	80.7	79.0	78.7	1	64	26.5	27.8	24.5
12	38161 132	87.0	80.7	79.2	78.9	1	55	26.7	28.6	25.0
13	38162 133	89.0	80.7	79.4	79.0	1	54	26.9	29.3	25.4
14	38163 134	85.0	81.0	79.8	79.3	1	56	27.4	30.1	25.8
15	38164 135	98.0	81.4	80.2	79.6	1	65	28.6	31.0	26.4
16	38165 136	100.0	82.0	80.6	79.9	1	66	30.0	31.9	26.9
17	38166 137	100.0	82.8	81.1	80.1	1	76	32.1	33.0	27.7
18	38167 138	99.0	83.7	81.5	80.4	1	78	34.6	34.2	28.5
19	38168 139	98.0	84.7	82.0	80.7	1	68	37.1	35.2	29.1
20	38169 140	90.0	85.4	82.3	80.9	1	58	39.3	36.0	29.9
21	38170 141	87.0	86.0	82.6	81.0	1	49	41.1	36.8	30.5
22	38171 142	89.0	86.6	82.8	81.2	1	37	42.4	37.2	30.9
23	38172 143	93.0	87.4	83.1	81.4	1	24	43.3	37.4	31.1
24	38173 144	89.0	87.9	83.5	81.5	1	28	44.4	37.5	31.3
25	38174 145	83.0	88.1	83.7	81.5	1	18	44.8	37.6	31.2
26	38175 146	76.0	88.1	83.7	81.4	1	9	44.5	37.3	31.0
27	38176 147	80.0	88.1	83.8	81.3	1	18	44.2	37.1	30.7
28	38177 148	79.0	88.0	84.0	81.3	1	36	44.7	37.5	30.8
29	38178 149	79.0	88.0	84.1	81.3	1	32	45.1	37.6	30.8
30	38179 150	82.0	88.0	84.2	81.3	1	37	45.6	37.4	30.9
31	38180 151	96.0	88.2	84.4	81.4	1	35	46.1	37.1	31.0

MONTHLY AVERAGE 87.3  
MONTHLY SMOOTHED 81.143.0  
28.7

GEOMAGNETIC PLANETARY INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP										SUM KP	AVG. KP
		1	2	3	4	5	6	7	8				
1	38181 152	2.333	2.333	2.000	3.333	3.333	2.667	1.333	2.667	20.000	2.500		
2	38182 153	2.000	3.000	2.333	2.333	2.667	3.000	2.333	1.000	18.667	2.333		
3	38183 154	1.667	1.667	2.000	2.000	2.333	.667	1.667	1.667	13.667	1.708		
4	38184 155	1.000	1.000	2.667	.667	1.333	.667	.667	.667	8.667	1.083		
5	38185 156	.333	1.000	.000	.333	.333	.667	.333	.333	3.333	.417		
6	38186 157	.000	.667	.333	1.000	1.333	2.333	4.667	5.667	16.000	2.000		
7	38187 158	7.000	5.667	4.667	3.333	3.667	3.667	3.333	4.000	35.333	4.417		
8	38188 159	2.000	2.000	2.000	3.000	1.667	2.667	2.667	4.333	20.333	2.542		
9	38189 160	3.333	2.667	2.333	2.667	2.333	1.667	1.667	2.000	18.333	2.292		
10	38190 161	1.333	.667	1.000	1.667	1.667	1.333	2.000	1.333	11.000	1.375		
11	38191 162	2.000	2.333	1.333	1.000	1.000	2.333	1.333	1.333	12.667	1.583		
12	38192 163	1.667	2.000	1.000	1.667	.333	1.000	1.333	.667	9.667	1.208		
13	38193 164	2.000	1.333	1.000	1.667	1.333	1.000	1.333	1.667	11.333	1.417		
14	38194 165	2.667	.000	1.000	2.000	1.667	2.000	.333	1.333	11.000	1.375		
15	38195 166	1.667	3.333	3.333	1.333	1.333	1.333	1.667	2.000	16.000	2.000		
16	38196 167	.333	.000	.000	.333	.000	1.667	1.333	1.333	5.000	.625		
17	38197 168	2.333	1.667	2.333	2.000	2.333	3.000	2.333	2.333	18.333	2.292		
18	38198 169	1.000	3.333	2.667	3.000	4.333	3.000	5.000	4.000	26.333	3.292		
19	38199 170	3.333	2.667	1.667	.667	1.667	2.333	3.333	2.667	18.333	2.292		
20	38200 171	4.000	3.000	3.000	3.000	2.333	2.000	2.000	1.667	21.000	2.625		
21	38201 172	2.333	2.333	2.667	3.000	.333	1.333	1.333	1.000	14.333	1.722		
22	38202 173	1.667	1.667	1.333	1.000	1.000	1.000	.667	1.000	9.333	1.167		
23	38203 174	1.000	.667	.667	1.333	.333	1.000	1.000	1.000	7.000	.875		
24	38204 175	.333	1.333	1.667	1.000	2.333	2.667	1.333	2.000	12.667	1.583		
25	38205 176	3.000	4.000	4.333	2.667	2.333	2.333	4.000	5.333	28.000	3.500		
26	38206 177	5.667	4.667	5.000	3.333	2.333	2.000	2.333	2.667	28.000	3.500		
27	38207 178	3.667	4.000	3.333	3.000	2.333	.667	3.667	3.000	23.667	2.958		
28	38208 179	2.667	1.667	3.333	3.000	2.667	3.333	3.000	1.333	21.000	2.625		
29	38209 180	1.333	1.000	2.333	1.000	2.000	3.333	3.333	2.333	16.667	2.083		
30	38210 181	2.333	2.667	2.667	2.333	2.333	2.000	3.667	2.333	20.333	2.542		

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER									
			1	2	3	4	5	6	7	8	APG	APG
1	38181	152	9	9	7	18	18	12	5	12	11.250	.6
2	38182	153	7	15	9	9	12	15	9	4	10.200	.7
3	38183	154	6	6	7	7	9	3	6	6	4.250	.4
4	38184	155	4	4	12	3	5	3	3	3	4.625	.2
5	38185	156	2	4	0	2	2	3	2	2	2.125	.0
6	38186	157	0	3	2	4	5	9	39	67	16.125	1.1
7	38187	158	132	67	39	18	22	22	18	27	43.125	1.5
8	38188	159	7	7	7	15	6	12	12	32	12.250	.8
9	38189	160	18	12	9	12	9	6	5	7	9.750	.6
10	38190	161	5	3	4	6	6	5	7	5	5.125	.4
11	38191	162	7	9	5	4	4	9	5	5	6.000	.4
12	38192	163	6	7	4	6	2	4	5	3	4.625	.1
13	38193	164	7	5	4	6	5	4	5	6	5.250	.3
14	38194	165	12	0	4	7	6	7	2	5	5.375	.2
15	38195	166	6	18	18	5	5	5	6	7	6.750	.6
16	38196	167	2	0	0	2	0	6	5	5	2.500	.1
17	38197	168	9	6	9	7	9	15	9	9	9.125	.8
18	38198	169	4	10	12	15	32	15	43	27	21.375	1.1
19	38199	170	18	12	6	3	6	9	18	12	10.500	.7
20	38200	171	27	15	15	15	9	7	7	6	12.625	.9
21	38201	172	9	9	12	15	2	5	5	4	7.625	.4
22	38202	173	6	6	5	4	4	4	3	4	4.500	.1
23	38203	174	4	3	3	5	2	4	4	4	3.625	.1
24	38204	175	2	5	6	4	7	12	5	7	6.250	.3
25	38205	176	15	27	32	12	9	9	27	56	23.375	1.1
26	38206	177	67	39	46	18	9	7	9	12	26.125	1.3
27	38207	178	22	27	18	15	9	3	22	15	16.375	.9
28	38208	179	12	6	18	15	12	18	15	5	12.625	.7
29	38209	180	5	4	9	4	7	18	18	9	9.250	.6
30	38210	181	9	12	12	9	9	7	22	9	11.125	.8

JUNE 1963

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1				
		DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY				
1	38101 152	84.0	88.2	84.4	81.5	31	46.3	36.5	31.2
2	38102 153	80.0	88.0	84.4	81.6	26	45.7	36.0	31.3
3	38103 154	91.0	87.7	84.4	81.6	15	44.5	35.2	31.2
4	38104 155	79.0	87.5	84.2	81.6	13	43.0	34.5	31.1
5	38105 156	78.0	87.1	83.9	81.6	23	42.0	33.8	31.3
6	38106 157	77.0	86.7	83.7	81.5	8	40.0	32.9	31.3
7	38107 158	84.0	86.7	83.7	81.6	29	38.7	32.6	31.4
8	38108 159	89.0	86.8	83.7	81.7	54	38.6	32.7	31.9
9	38109 160	93.0	87.0	83.8	81.9	68	39.1	33.0	32.6
10	38110 161	98.0	87.1	84.1	82.2	82	40.1	33.8	33.4
11	38111 162	102.0	87.2	84.3	82.5	82	40.7	34.6	34.3
12	38112 163	108.0	87.5	84.8	82.9	87	41.5	35.7	35.1
13	38113 164	107.0	87.8	85.3	83.3	82	41.7	36.9	35.9
14	38114 165	100.0	87.9	85.8	83.6	57	41.0	37.8	36.5
15	38115 166	95.0	87.7	86.2	83.9	54	40.4	38.8	37.0
16	38116 167	88.0	87.7	86.5	84.1	33	39.5	39.4	37.2
17	38117 168	86.0	87.6	86.8	84.2	27	38.7	39.9	37.4
18	38118 169	82.0	87.4	87.0	84.3	25	38.3	40.4	37.6
19	38119 170	79.0	86.9	87.1	84.4	23	38.2	40.8	37.7
20	38200 171	75.0	86.4	87.1	84.4	19	37.9	41.1	37.7
21	38201 172	72.0	86.0	87.1	84.4	19	37.9	41.4	37.7
22	38202 173	71.0	85.8	86.9	84.4	7	37.9	41.2	37.5
23	38203 174	71.0	85.4	86.8	84.4	15	37.7	41.0	37.3
24	38204 175	71.0	85.1	86.6	84.4	24	37.3	41.0	37.4
25	38205 176	73.0	84.9	86.4	84.4	29	37.2	41.1	37.5
26	38206 177	74.0	84.6	86.3	84.4	34	37.1	41.3	37.3
27	38207 178	72.0	84.0	86.1	84.3	31	36.9	41.5	37.0
28	38208 179	74.0	83.7	85.9	84.2	24	36.7	41.5	36.6
29	38209 180	73.0	83.4	85.7	84.1	30	36.8	41.2	36.3
30	38210 181	75.0	83.2	85.5	84.0	27	37.3	40.9	35.9

MONTHLY AVERAGE 83.0  
MONTHLY SMOOTHED 80.9

35.9  
26.2

JULY 1963

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR KP INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36211 182	2.667	2.000	1.667	.667	.667	.333	.333	.333	9.667	1.083
2	36212 183	.000	.667	1.000	1.000	.667	.667	.667	.667	5.333	.667
3	36213 184	1.333	.333	.333	.667	.667	.333	.667	.667	5.000	.625
4	36214 185	.333	1.333	2.000	1.667	3.000	3.000	4.000	4.333	19.667	2.458
5	36215 186	3.333	4.333	4.000	2.000	2.000	1.667	3.667	3.667	24.667	3.083
6	36216 187	3.000	5.667	4.667	2.667	2.000	2.333	2.333	1.333	24.000	3.000
7	36217 188	2.000	2.333	2.667	3.000	3.333	3.000	1.667	2.000	20.000	2.500
8	36218 189	3.000	2.333	3.667	1.667	2.333	2.667	2.333	3.667	21.667	2.708
9	36219 190	4.000	3.667	3.333	2.667	2.333	2.000	2.333	3.000	23.333	2.917
10	36220 191	1.667	2.667	2.667	1.667	2.000	2.333	2.667	3.000	18.667	2.333
11	36221 192	2.000	2.333	2.333	1.000	.667	1.000	1.667	1.333	12.333	1.542
12	36222 193	1.667	1.667	1.333	.667	.333	.667	1.667	1.000	9.000	1.125
13	36223 194	2.000	1.333	1.333	.667	1.000	1.333	1.333	.667	9.667	1.208
14	36224 195	1.000	.667	1.000	.333	2.333	1.667	.667	.667	8.333	1.042
15	36225 196	1.000	1.000	.667	1.000	1.000	1.333	.333	1.667	8.000	1.000
16	36226 197	3.000	2.333	1.333	.333	1.667	2.000	1.333	2.000	14.000	1.750
17	36227 198	3.667	3.000	3.667	3.333	3.333	3.333	1.333	2.333	24.000	3.000
18	36228 199	1.667	1.333	2.000	1.667	2.333	3.000	2.333	3.333	17.667	2.208
19	36229 200	2.000	1.333	1.000	.667	1.333	1.333	2.000	.667	10.333	1.292
20	36230 201	.667	1.000	.667	1.000	1.000	2.667	3.333	1.667	12.000	1.500
21	36231 202	1.333	2.333	3.333	4.333	5.333	5.333	3.667	2.000	27.667	3.458
22	36232 203	1.333	2.333	3.000	3.333	3.333	3.333	2.667	2.333	21.667	2.708
23	36233 204	2.333	2.667	3.333	2.667	4.333	3.333	3.667	5.333	27.667	3.458
24	36234 205	5.000	5.333	3.667	4.000	4.000	3.667	3.333	3.333	32.333	4.042
25	36235 206	2.000	4.000	3.667	2.000	2.333	2.333	2.000	3.000	21.333	2.667
26	36236 207	2.667	3.000	3.333	2.667	2.667	2.000	3.000	3.333	22.667	2.833
27	36237 208	4.000	4.000	3.333	2.000	3.333	2.667	2.000	3.000	24.333	3.042
28	36238 209	3.000	2.000	2.333	2.000	1.000	.667	.333	.333	11.667	1.458
29	36239 210	.000	.333	.667	.333	1.000	1.000	1.333	2.667	7.333	.917
30	36240 211	3.000	4.333	5.000	2.667	5.000	2.667	4.333	3.667	30.667	3.833
31	36241 212	4.000	3.333	2.667	2.333	3.667	2.667	2.333	4.667	25.667	3.208

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

311

JULY 1963

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. JULIAN DAY	DAY YEAR	1- DAILY	2- DAILY	3- DAILY	4- DAILY	5- DAILY	6- DAILY	7- DAILY	8- DAILY	9- DAILY	10- DAILY	11- DAILY	12- DAILY	13- DAILY	14- DAILY	15- DAILY	16- DAILY	17- DAILY	18- DAILY	19- DAILY	20- DAILY	21- DAILY	22- DAILY	23- DAILY	24- DAILY	25- DAILY	26- DAILY	27- DAILY	28- DAILY	29- DAILY	30- DAILY	31- DAILY
1	38211	182	1	75.0	83.0	85.3	83.8	1	30	37.9	40.4	35.6																					
2	38212	183	1	77.0	83.0	85.1	83.6	1	22	37.9	39.9	35.1																					
3	38213	184	1	77.0	83.0	84.9	83.5	1	37	38.9	39.4	34.9																					
4	38214	185	1	77.0	82.7	84.7	83.4	1	22	38.7	38.7	34.6																					
5	38215	186	1	76.0	82.3	84.6	83.3	1	9	37.0	37.8	34.1																					
6	38216	187	1	77.0	81.7	84.4	83.1	1	9	34.8	37.0	33.6																					
7	38217	188	1	77.0	81.0	84.0	83.0	1	9	32.1	36.1	33.2																					
8	38218	189	1	76.0	80.0	83.6	82.7	1	10	29.4	35.1	32.9																					
9	38219	190	1	77.0	78.9	83.2	82.8	1	17	26.9	34.2	32.8																					
10	38220	191	1	75.0	77.7	82.7	82.8	1	9	24.1	32.9	32.7																					
11	38221	192	1	75.0	76.7	82.3	82.8	1	10	22.4	31.7	32.7																					
12	38222	193	1	74.0	76.0	81.9	82.8	1	10	20.8	30.6	32.8																					
13	38223	194	1	75.0	75.5	81.6	82.9	1	18	20.2	29.9	33.0																					
14	38224	195	1	76.0	75.1	81.4	82.9	1	22	20.0	29.4	33.3																					
15	38225	196	1	75.0	74.9	81.1	82.9	1	19	19.8	29.0	33.5																					
16	38226	197	1	76.0	74.7	80.8	83.0	1	11	19.4	28.6	33.6																					
17	38227	198	1	74.0	74.7	80.5	83.0	1	11	19.1	28.5	33.8																					
18	38228	199	1	73.0	74.7	80.4	83.0	1	13	18.9	28.4	33.9																					
19	38229	200	1	74.0	74.9	80.3	82.9	1	15	19.1	28.5	33.8																					
20	38230	201	1	76.0	75.0	80.2	82.9	1	11	19.0	28.4	33.7																					
21	38231	202	1	74.0	75.1	80.1	82.8	1	19	18.3	28.1	33.6																					
22	38232	203	1	73.0	75.1	80.0	82.7	1	19	18.4	27.8	33.6																					
23	38233	204	1	71.0	75.0	79.8	82.6	1	25	18.1	27.6	33.6																					
24	38234	205	1	72.0	75.0	79.5	82.4	1	17	17.6	27.3	33.5																					
25	38235	206	1	74.0	75.0	79.4	82.3	1	25	17.6	27.1	33.5																					
26	38236	207	1	73.0	75.0	79.2	82.1	1	16	17.1	27.0	33.2																					
27	38237	208	1	74.0	75.0	79.1	82.0	1	23	17.0	27.1	32.9																					
28	38238	209	1	73.0	74.9	79.0	81.8	1	7	16.1	27.0	32.3																					
29	38239	210	1	76.0	74.9	78.9	81.7	1	24	16.2	27.0	32.0																					
30	38240	211	1	83.0	75.1	79.1	81.6	1	55	16.9	27.9	31.9																					
31	38241	212	1	84.0	75.4	79.1	81.6	1	65	18.4	28.6	31.9																					

MONTHLY AVERAGE 75.5  
MONTHLY SMOOTHED 70.619.6  
27.7

AUGUST 1963

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	38242	213	3.667	4.000	2.333	2.667	3.000	3.333	3.333	3.000	25.333	3.167
2	38243	214	2.000	4.333	4.000	2.667	1.667	1.667	3.000	2.667	22.000	2.750
3	38244	215	2.667	2.667	2.000	1.000	1.667	1.333	2.333	3.000	16.667	2.083
4	38245	216	2.333	1.000	2.667	2.333	3.667	2.000	3.333	3.667	21.000	2.625
5	38246	217	3.333	3.000	2.333	3.000	2.000	1.333	3.000	3.000	21.000	2.625
6	38247	218	2.333	3.000	2.667	2.333	1.667	2.333	2.000	3.333	19.667	2.458
7	38248	219	3.000	3.000	2.667	2.667	2.333	.667	1.000	1.667	17.000	2.125
8	38249	220	2.667	2.333	2.000	1.667	1.667	1.000	.333	.667	12.333	1.542
9	38250	221	1.667	3.333	2.333	2.333	1.667	2.000	2.333	1.333	17.000	2.125
10	38251	222	1.000	1.000	.667	1.667	3.000	3.333	1.000	.667	12.333	1.542
11	38252	223	1.000	.333	1.000	1.000	1.000	1.000	.667	1.667	7.667	.958
12	38253	224	.667	1.000	1.000	1.000	1.333	1.333	1.667	1.000	9.000	1.125
13	38254	225	.667	.333	.000	.333	.667	.333	1.000	1.333	4.667	.583
14	38255	226	1.667	.333	.333	.333	.333	1.000	.667	.667	5.333	.667
15	38256	227	.000	.333	.333	1.000	2.333	2.667	2.667	3.333	12.667	1.583
16	38257	228	1.667	1.000	.667	1.333	2.000	2.333	1.333	1.667	12.000	1.500
17	38258	229	2.000	1.333	1.333	2.000	1.000	1.333	4.000	2.667	15.667	1.958
18	38259	230	2.000	3.000	4.000	3.667	6.333	3.333	2.333	3.333	28.000	3.500
19	38260	231	2.667	2.000	1.667	.667	2.000	3.667	5.333	6.000	24.000	3.000
20	38261	232	7.000	6.667	6.000	4.000	5.000	4.000	3.000	3.667	39.333	4.917
21	38262	233	4.667	3.667	5.000	5.000	3.000	3.333	2.667	3.000	30.333	3.792
22	38263	234	1.667	1.333	3.000	1.667	2.333	1.333	1.667	3.000	16.000	2.000
23	38264	235	4.000	4.333	4.333	3.000	3.667	1.667	1.333	2.000	24.333	3.042
24	38265	236	3.667	2.000	2.667	2.333	2.000	1.333	1.667	1.667	17.333	2.167
25	38266	237	2.333	2.333	2.000	2.000	1.000	1.000	2.667	2.667	16.000	2.000
26	38267	238	3.333	2.667	2.333	1.667	2.333	2.333	2.000	2.000	18.667	2.333
27	38268	239	2.000	1.333	1.333	1.667	3.000	4.000	4.667	3.667	21.667	2.708
28	38269	240	3.667	2.667	3.000	4.333	4.000	3.667	5.333	3.667	30.333	3.792
29	38270	241	2.667	2.333	3.333	4.333	3.333	2.000	3.000	2.333	23.333	2.917
30	38271	242	2.000	7.000	1.667	2.000	2.333	3.000	2.667	3.333	19.500	2.375
31	38272	243	3.667	3.000	2.667	2.000	3.333	4.667	2.000	3.333	24.667	3.083



# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY								MAGNETIC CHARACTER
		AP	AP	AP	AP	AP	AP	AP	AP	
1	2	3	4	5	6	7	8	AP	AP	
1	38242	213	22	27	15	18	15	17.000	1.1	
2	38243	214	7	32	7	6	15	14.625	.9	
3	38244	215	12	12	4	6	9	8.750	.5	
4	38245	216	9	4	12	7	18	12.675	.8	
5	38246	217	18	15	9	15	15	12.375	.8	
6	38247	218	9	15	12	9	7	10.625	.7	
7	38248	219	15	15	12	9	3	9.500	.6	
8	38249	220	12	9	7	6	2	6.125	.3	
9	38250	221	6	18	9	9	9	6.625	.6	
10	38251	222	4	4	3	6	15	7.125	.5	
11	38252	223	4	2	4	11	4	3.875	.2	
12	38253	224	3	4	4	4	5	4.375	.2	
13	38254	225	3	2	0	2	2	2.625	.0	
14	38255	226	6	2	2	2	4	3.000	.0	
15	38256	227	0	2	2	4	9	7.375	.6	
16	38257	228	6	4	3	5	7	5.625	.3	
17	38258	229	7	5	5	7	4	9.000	.7	
18	38259	230	7	15	27	22	18	26.250	1.2	
19	38260	231	12	7	6	3	7	24.125	1.2	
20	38261	232	132	111	40	27	48	57.750	1.5	
21	38262	233	39	22	48	15	18	27.125	1.2	
22	38263	234	6	5	15	6	9	8.375	.6	
23	38264	235	27	32	32	15	22	18.250	1.0	
24	38265	236	22	7	12	7	7	9.250	.7	
25	38266	237	9	9	7	4	4	8.000	.6	
26	38267	238	15	12	9	6	9	9.625	.6	
27	38268	239	7	5	5	6	15	15.750	1.0	
28	38269	240	22	12	15	32	27	26.000	1.3	
29	38270	241	12	9	18	32	18	15.000	.9	
30	38271	242	7	7	6	7	15	10.125	.8	
31	38272	243	22	15	12	7	18	17.250	1.0	

AUGUST 1963

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. JULIAN DAY	-----SOLAR FLUX (10.7CM OTTAWA)-----				-----RELATIVE ZURICH SUNSPOT NUMBER-----				
			-----RUNNING MEANS-----		-----RUNNING MEANS-----		-----RUNNING MEANS-----		-----RUNNING MEANS-----		
DAY	YEAR	DAY	DAILY 27-DAY	DAILY 54-DAY	DAILY 81-DAY	DAILY 27-DAY	DAILY 54-DAY	DAILY 81-DAY	DAILY 27-DAY	DAILY 54-DAY	DAILY 81-DAY
1	38242 213	1	86.0	75.7	79.0	81.6	1	65	20.5	28.3	32.0
2	38243 214	1	27.0	76.0	78.9	81.6	1	55	22.2	28.5	32.1
3	38244 215	1	86.0	76.4	78.7	81.5	1	53	23.9	28.0	32.0
4	38245 216	1	87.0	76.8	78.4	81.3	1	51	25.4	27.4	31.9
5	38246 217	1	86.0	77.1	78.0	81.2	1	50	26.6	26.7	31.7
6	38247 218	1	87.0	77.6	77.6	81.0	1	53	28.2	26.2	31.4
7	38248 219	1	85.0	77.9	77.3	80.8	1	38	29.3	25.8	30.9
8	38249 220	1	81.0	78.2	77.1	80.6	1	23	29.7	25.3	30.3
9	38250 221	1	80.0	78.4	76.9	80.5	1	22	29.9	25.1	29.9
10	38251 222	1	76.0	78.4	76.7	80.4	1	20	29.8	24.7	29.5
11	38252 223	1	72.0	78.3	76.6	80.2	1	9	29.4	24.6	29.2
12	38253 224	1	73.0	78.1	76.4	79.9	1	0	29.0	24.2	28.9
13	38254 225	1	73.0	78.1	76.4	79.7	1	7	28.9	24.0	28.6
14	38255 226	1	70.0	78.0	76.4	79.6	1	13	28.9	23.9	28.6
15	38256 227	1	72.0	77.9	76.4	79.5	1	11	28.7	23.9	28.6
16	38257 228	1	75.0	77.9	76.5	79.5	1	18	29.0	24.0	28.6
17	38258 229	1	82.0	78.2	76.7	79.5	1	29	29.4	24.1	28.5
18	38259 230	1	80.0	78.4	76.8	79.5	1	43	30.3	24.4	28.6
19	38260 231	1	79.0	78.7	76.9	79.5	1	36	30.7	24.4	28.6
20	38261 232	1	81.0	79.1	77.1	79.4	1	36	31.4	24.5	28.6
21	38262 233	1	83.0	79.4	77.2	79.4	1	50	32.3	25.0	28.9
22	38263 234	1	86.0	79.9	77.5	79.4	1	68	34.2	25.7	29.4
23	38264 235	1	90.0	80.5	77.7	79.6	1	64	35.7	26.4	30.0
24	38265 236	1	86.0	81.0	77.9	79.6	1	50	37.3	26.7	30.4
25	38266 237	1	84.0	81.3	78.1	79.7	1	37	37.8	27.0	30.6
26	38267 238	1	81.0	81.2	78.1	79.8	1	29	36.9	26.9	30.9
27	38268 239	1	80.0	81.0	78.2	79.7	1	16	35.0	26.7	30.7
28	38269 240	1	77.0	80.7	76.2	79.6	1	21	33.4	27.0	30.3
29	38270 241	1	77.0	80.3	76.2	79.4	1	16	32.0	27.1	29.7
30	38271 242	1	76.0	80.0	78.2	79.1	1	23	30.9	27.4	28.9
31	38272 243	1	76.0	79.6	78.2	78.8	1	24	29.9	27.6	29.2

MONTHLY AVERAGE 80.5  
MONTHLY SMOOTHED 80.3

33.2  
27.2

## JULIAN-LOGARITHMIC PLANETARY THREE HOUR(XP) INDICES

DAY OF MONTH	MOD. OF JULIAN DAY	DAY YEAR	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP
1	2	3	4	5	6	7	8	9	10	11	12	13
1	38273	244	3.667	2.333	3.000	4.333	3.333	2.667	2.000	1.333	22.667	2.833
2	38274	245	2.000	1.000	.667	.333	1.000	2.000	3.000	3.333	13.333	1.667
3	38275	246	2.667	2.333	1.667	2.667	2.000	2.667	2.333	2.000	10.333	2.292
4	38276	247	1.667	1.333	1.333	1.000	.667	.333	1.667	2.333	10.333	1.292
5	38277	248	3.000	.333	1.000	2.000	2.333	2.667	2.000	3.333	16.667	2.083
6	38278	249	3.000	1.667	1.667	2.333	2.000	1.333	1.333	3.333	16.667	2.083
7	38279	250	1.000	1.000	1.333	.333	.667	1.000	1.333	2.667	9.333	1.167
8	38280	251	2.333	4.333	3.000	3.000	4.333	2.333	1.000	.667	21.000	2.625
9	38281	252	2.667	4.333	2.667	3.333	3.333	2.000	1.667	1.333	21.333	2.667
10	38282	253	2.000	2.000	2.667	2.000	1.667	2.000	1.333	3.333	17.000	2.125
11	38283	254	3.333	2.667	2.000	3.333	2.667	4.000	5.000	3.333	26.333	3.292
12	38284	255	4.000	3.333	4.000	2.333	2.667	1.667	1.667	1.667	20.667	2.533
13	38285	256	1.667	.667	1.000	.333	.667	1.000	2.667	4.333	12.333	1.542
14	38286	257	4.000	5.333	7.000	6.667	6.333	6.667	5.667	5.333	47.000	5.875
15	38287	258	3.667	4.333	4.000	4.333	4.667	5.000	4.333	5.333	35.667	4.458
16	38288	259	3.333	4.667	4.000	4.667	4.667	4.000	4.667	4.667	34.667	4.333
17	38289	260	4.667	4.333	5.667	6.333	4.000	4.000	5.000	2.667	36.667	4.583
18	38290	261	3.333	2.000	2.000	3.000	3.333	4.333	1.667	3.000	22.667	2.833
19	38291	262	3.667	4.000	4.333	4.667	4.667	3.667	3.333	2.000	30.333	3.792
20	38292	263	3.333	3.000	2.333	2.667	3.333	3.000	2.000	2.667	22.333	2.792
21	38293	264	2.667	3.667	1.667	2.000	5.333	7.000	6.333	4.000	32.667	4.083
22	38294	265	4.333	8.333	7.667	4.667	4.000	4.667	7.333	9.667	49.667	6.208
23	38295	266	8.667	8.000	4.333	4.333	3.333	3.333	3.000	1.667	36.667	4.583
24	38296	267	5.000	2.000	2.000	2.000	2.000	3.000	3.667	6.000	20.667	2.583
25	38297	268	7.333	6.333	4.667	5.000	4.000	6.000	4.000	2.667	40.000	5.000
26	38298	269	2.333	5.333	4.000	3.333	3.667	4.667	3.333	4.000	30.667	3.833
27	38299	270	4.000	3.333	2.333	3.000	3.000	3.000	6.333	6.000	31.000	3.875
28	38300	271	6.000	5.667	4.667	3.000	5.000	5.000	5.333	4.333	39.000	4.875
29	38301	272	3.333	3.000	3.000	3.667	3.333	2.667	4.000	3.667	26.667	3.333
30	38302	273	4.000	2.667	3.000	3.000	2.667	1.333	1.000	1.667	19.333	2.417

GEO MAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

317

[illegible]

1	38273	244	1	73.0	79.1	78.1	78.3	1	20	28.7	27.7	27.4
2	38274	245	1	73.0	78.6	78.1	77.9	1	25	27.7	28.0	26.7
3	38275	246	1	74.0	78.1	78.0	77.6	1	34	27.6	28.4	25.4
4	38276	247	1	74.0	77.9	78.0	77.3	1	43	26.3	29.0	26.3
5	38277	248	1	74.0	77.7	78.0	77.2	1	42	29.0	29.5	26.4
6	38278	249	1	73.0	77.6	78.0	77.0	1	31	29.4	29.6	26.4
7	38279	250	1	78.0	77.8	78.0	77.0	1	9	29.4	29.4	26.2
8	38280	251	1	75.0	77.9	78.0	76.9	1	14	30.0	29.5	26.1
9	38281	252	1	77.0	78.0	78.1	76.9	1	15	30.3	29.6	26.1
10	38282	253	1	76.0	78.2	78.1	77.0	1	23	30.6	29.8	26.1
11	38283	254	1	72.0	78.2	78.1	77.0	1	22	31.0	29.9	26.3
12	38284	255	1	76.0	78.3	78.1	77.1	1	28	31.4	30.2	26.5
13	38285	256	1	89.0	78.5	78.4	77.3	1	40	31.8	30.6	26.7
14	38286	257	1	70.0	79.2	78.8	77.6	1	65	32.6	31.4	27.1
15	38287	258	1	98.0	79.9	79.3	77.9	1	84	34.4	32.5	27.7
16	38288	259	1	105.0	80.8	79.9	78.3	1	85	36.2	33.8	28.4
17	38289	260	1	99.0	81.4	80.4	78.6	1	81	37.4	34.8	29.1
18	38290	261	1	97.0	81.8	80.8	78.9	1	73	37.6	35.9	29.6
19	38291	262	1	102.0	82.2	81.4	79.2	1	72	37.9	36.8	30.2
20	38292	263	1	108.0	83.0	82.0	79.6	1	73	38.7	38.0	30.7
21	38293	264	1	90.0	83.3	82.3	79.8	1	77	40.2	39.0	31.4
22	38294	265	1	105.0	84.1	82.7	80.1	1	70	41.7	39.3	31.8
23	38295	266	1	99.0	84.9	82.9	80.4	1	54	43.1	39.1	32.2
24	38296	267	1	95.0	85.5	83.1	80.6	1	38	43.7	38.6	32.6
25	38297	268	1	86.0	85.9	83.1	80.7	1	25	44.1	38.0	32.8
26	38298	269	1	84.0	86.1	83.1	80.8	1	13	43.7	37.3	32.8
27	38299	270	1	78.0	86.2	82.9	80.9	1	0	42.8	36.3	32.7
28	38300	271	1	73.0	86.2	82.6	80.4	1	9	42.4	35.6	32.6
29	38301	272	1	70.0	86.1	82.3	80.7	1	0	41.5	34.6	32.5
30	38302	273	1	69.0	85.9	82.0	80.7	1	0	40.2	33.9	32.3

MONTHLY AVERAGE	84.7
MONTHLY SMOOTHED	80.1

38.9  
26.9

OCTOBER 1963

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOO. DAY JULIAN OF DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP R	SU4 KP	AVG. KP
1	36303 274	1.000	1.667	1.000	.667	.667	.333	.667	.667	6.667	.833
2	36304 275	.000	.000	.333	.333	1.333	1.333	.667	1.000	5.000	.625
3	36305 276	1.000	1.333	1.667	1.000	.667	1.000	1.000	.667	8.333	1.042
4	36306 277	1.667	2.667	2.000	1.667	1.333	1.667	.667	.667	12.333	1.542
5	36307 278	1.333	1.667	1.333	3.333	1.667	1.000	3.000	1.333	14.667	1.833
6	36308 279	1.667	2.667	.333	.333	.333	1.333	1.333	.667	8.667	1.083
7	36309 280	1.000	2.333	1.333	2.000	1.000	3.000	1.667	4.667	17.000	2.125
8	36310 281	3.667	4.333	2.667	3.000	2.000	4.000	1.667	1.667	23.000	2.875
9	36311 282	1.000	1.667	2.000	1.000	.667	1.000	2.000	2.667	12.000	1.500
10	36312 283	2.333	1.000	2.333	2.000	2.000	1.333	4.000	1.667	16.667	2.083
11	36313 284	1.333	2.333	3.667	4.667	4.333	3.667	2.667	4.333	27.000	3.375
12	36314 285	4.333	4.000	4.000	3.667	5.333	5.333	5.667	4.000	36.333	4.542
13	36315 286	2.667	4.333	3.667	2.667	3.333	3.667	4.000	5.000	29.333	3.667
14	36316 287	4.667	4.333	4.667	4.333	4.333	4.333	4.000	2.667	33.333	4.167
15	36317 288	3.333	3.667	3.000	3.000	3.000	1.667	3.000	3.667	24.333	3.042
16	36318 289	4.000	3.333	3.333	2.667	2.667	3.667	3.333	1.333	24.333	3.042
17	36319 290	1.667	2.667	1.667	1.000	.333	1.000	.333	1.000	9.667	1.200
18	36320 291	1.333	2.333	1.000	1.333	1.667	1.333	1.333	1.000	11.333	1.417
19	36321 292	1.667	2.333	1.667	.667	1.000	1.000	1.000	1.333	10.667	1.333
20	36322 293	2.333	2.667	1.333	3.000	3.667	2.333	2.000	4.000	21.333	2.667
21	36323 294	2.000	4.000	2.333	3.000	1.000	1.000	.333	.333	14.000	1.750
22	36324 295	.333	1.000	.333	.667	1.000	1.000	.333	.000	4.667	.563
23	36325 296	.000	.333	.000	.333	1.000	.667	2.000	2.333	6.667	.833
24	36326 297	5.333	6.333	6.333	7.333	4.000	4.000	3.667	4.333	41.333	5.167
25	36327 298	5.333	3.333	2.667	1.667	1.667	1.333	2.333	2.667	21.000	2.625
26	36328 299	3.333	2.000	1.667	2.333	1.667	1.667	1.000	1.333	14.667	1.833
27	36329 300	1.000	1.000	1.000	.667	1.000	.333	2.000	.333	7.333	.917
28	36330 301	.333	.000	.000	1.333	.333	2.667	3.667	2.667	11.000	1.375
29	36331 302	3.333	2.667	2.333	1.667	4.000	7.000	7.667	8.000	36.667	4.583
30	36332 303	7.667	4.667	4.000	3.000	1.333	1.333	2.000	1.000	25.000	3.125
31	36333 304	1.333	1.333	2.000	2.667	1.667	1.333	1.333	.667	12.333	1.542

OCTOBER 1963

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	38303	274	4	6	4	3	3	2	3	3	3	3	3	3	3.500
2	38304	275	0	0	2	2	5	5	3	4	4	4	4	4	2.625
3	38305	276	4	5	6	4	3	4	4	3	3	3	3	3	4.125
4	38306	277	6	12	7	6	5	6	3	3	3	3	3	3	6.000
5	38307	278	5	6	5	18	6	4	15	5	5	5	5	5	8.000
6	38308	279	6	12	2	2	2	5	5	3	3	3	3	3	4.625
7	38309	280	4	9	5	7	4	15	6	39	11.125	11.125	11.125	11.125	.7
8	38310	281	22	32	12	15	7	27	6	6	15.875	15.875	15.875	15.875	.8
9	38311	282	4	6	7	4	3	4	7	12	5.875	5.875	5.875	5.875	.4
10	38312	283	9	4	9	7	7	5	27	6	9.250	9.250	9.250	9.250	.7
11	38313	284	5	9	22	39	32	22	12	32	21.625	21.625	21.625	21.625	1.2
12	38314	285	32	27	27	22	56	56	67	27	39.250	39.250	39.250	39.250	1.5
13	38315	286	12	32	22	12	10	22	27	48	24.125	24.125	24.125	24.125	1.3
14	38316	287	39	32	39	32	32	32	27	12	30.625	30.625	30.625	30.625	1.3
15	38317	288	18	22	35	15	15	6	15	22	16.000	16.000	16.000	16.000	.9
16	38318	289	27	18	18	12	12	22	18	5	16.500	16.500	16.500	16.500	.8
17	38319	290	6	12	6	4	2	4	2	4	5.000	5.000	5.000	5.000	.2
18	38320	291	5	9	4	5	6	5	5	4	5.375	5.375	5.375	5.375	.2
19	38321	292	6	9	6	3	4	4	4	5	5.125	5.125	5.125	5.125	.2
20	38322	293	9	12	5	15	22	9	7	27	13.250	13.250	13.250	13.250	.3
21	38323	294	7	27	9	15	4	4	2	2	4.750	4.750	4.750	4.750	.5
22	38324	295	2	4	2	3	4	4	2	0	2.625	2.625	2.625	2.625	.1
23	38325	296	0	2	0	2	4	3	7	9	3.375	3.375	3.375	3.375	.3
24	38326	297	56	94	94	154	27	27	22	32	63.250	63.250	63.250	63.250	1.7
25	38327	298	56	18	12	6	6	5	9	12	15.500	15.500	15.500	15.500	.3
26	38328	299	18	7	6	9	5	6	4	5	7.500	7.500	7.500	7.500	.4
27	38329	300	4	4	4	3	4	2	7	2	3.750	3.750	3.750	3.750	.3
28	38330	301	2	0	0	5	2	12	22	12	6.875	6.875	6.875	6.875	.5
29	38331	302	18	12	9	6	27	132	179	207	73.750	73.750	73.750	73.750	1.6
30	38332	303	179	39	27	15	5	5	7	4	35.125	35.125	35.125	35.125	1.3
31	38333	304	5	5	7	12	6	5	5	3	6.000	6.000	6.000	6.000	.3

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

MONTHLY AVERAGE	84.5
MONTHLY SMOOTHED	79.7

35.3  
26.0



NOVEMBER 1963

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38334 305	1.333	2.667	2.333	2.000	2.000	2.667	2.333	2.000	17.333	2.167
2	38335 306	2.000	2.333	2.667	2.667	2.333	5.000	3.333	3.000	23.333	2.917
3	38336 307	3.333	4.000	4.000	3.000	2.000	.333	2.333	4.000	23.000	2.875
4	38337 308	1.333	2.333	1.667	1.667	1.667	1.000	2.333	1.333	13.333	1.667
5	38338 309	.333	.667	.333	.333	.333	.333	.000	.333	2.667	.333
6	38339 310	1.667	1.333	2.333	2.000	3.333	2.667	3.000	4.000	20.333	2.542
7	38340 311	3.333	4.667	3.667	5.000	4.000	4.667	6.000	4.667	36.000	4.500
8	38341 312	5.333	5.667	6.000	4.333	4.333	4.667	4.333	4.000	38.667	4.833
9	38342 313	4.333	3.667	4.333	3.333	4.333	4.333	5.000	5.000	34.333	4.292
10	38343 314	5.000	4.333	3.333	4.000	3.333	4.667	3.667	4.000	32.333	4.042
11	38344 315	3.667	3.667	3.333	3.000	1.667	2.333	3.667	2.667	24.000	3.000
12	38345 316	2.000	2.667	3.667	3.000	1.667	3.667	3.333	2.333	22.333	2.792
13	38346 317	1.000	1.333	.667	1.333	1.333	2.000	1.000	1.333	10.000	1.250
14	38347 318	1.333	3.333	1.000	.667	.667	.000	.333	1.333	8.667	1.083
15	38348 319	2.333	1.000	1.333	.667	1.000	.333	.333	.333	7.333	.917
16	38349 320	1.333	.667	1.000	.000	.333	.333	.333	1.000	5.000	.625
17	38350 321	.333	.333	1.000	3.333	4.333	4.667	4.000	1.667	19.667	2.458
18	38351 322	1.000	1.000	.000	.667	.667	.333	1.333	.333	5.333	.667
19	38352 323	.000	.000	.667	.333	.000	.333	.333	1.667	3.333	.417
20	38353 324	2.333	3.000	.333	.333	1.000	.000	.333	.000	7.333	.917
21	38354 325	.000	.000	.333	.667	1.333	.333	.667	.333	3.667	.458
22	38355 326	.000	.000	.333	1.333	1.000	3.000	3.333	1.667	10.667	1.333
23	38356 327	3.000	2.333	2.667	2.333	1.333	.667	1.667	1.000	15.000	1.875
24	38357 328	1.000	3.000	2.333	3.000	3.333	3.667	4.000	5.000	25.333	3.167
25	38358 329	4.667	4.000	3.333	2.667	2.667	2.333	1.333	.333	21.333	2.667
26	38359 330	.000	.000	2.333	1.333	.667	.000	.000	.000	4.333	.542
27	38360 331	.000	.667	1.667	1.333	.667	.333	1.000	1.333	7.000	.875
28	38361 332	1.333	3.333	1.333	1.000	1.333	.333	.667	.000	9.333	1.167
29	38362 333	1.333	2.000	1.000	1.667	1.667	2.667	1.333	3.333	15.000	1.875
30	38363 334	2.667	1.667	1.333	3.333	5.667	2.667	3.000	2.000	22.333	2.792

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

NOVEMBER 1963

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MJD. JULIAN DAY	DAY YEAR	1--SOLAR FLUX(10.7CM OTTAWA)-----1--RELATIVE ZURICH SUNSPOT NUMBER--1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY	81-DAY--1		
1	38334	305	1	88.0	87.4	86.2	83.4	1	45	41.3	38.6	35.7
2	38335	306	1	85.0	87.7	86.4	83.6	1	52	42.7	39.3	36.3
3	38336	307	1	83.0	87.8	86.5	83.7	1	43	43.5	39.7	36.7
4	38337	308	1	83.0	87.7	86.7	83.9	1	37	43.7	40.0	37.0
5	38338	309	1	81.0	87.6	86.8	83.9	1	29	43.4	40.0	37.1
6	38339	310	1	78.0	87.2	86.6	83.9	1	13	42.7	39.5	36.9
7	38340	311	1	76.0	86.8	86.2	83.8	1	10	41.6	38.5	36.5
8	38341	312	1	75.0	86.5	85.7	83.8	1	11	40.6	37.1	36.2
9	38342	313	1	76.0	86.2	85.2	83.7	1	9	39.3	35.7	35.9
10	38343	314	1	76.0	85.8	84.8	83.6	1	0	37.4	34.2	35.3
11	38344	315	1	77.0	85.4	84.4	83.5	1	8	35.9	33.0	34.5
12	38345	316	1	77.0	85.0	83.9	83.4	1	11	34.4	31.9	33.9
13	38346	317	1	78.0	84.8	83.4	83.3	1	7	32.8	30.6	33.3
14	38347	318	1	78.0	84.6	83.2	83.2	1	7	31.6	29.4	33.0
15	38348	319	1	81.0	84.4	82.7	83.2	1	9	30.9	28.2	32.7
16	38349	320	1	82.0	84.1	82.4	83.2	1	16	30.1	27.5	32.7
17	38350	321	1	81.0	83.6	82.1	83.3	1	24	29.7	27.3	32.8
18	38351	322	1	83.0	83.1	82.1	83.3	1	28	29.0	27.3	32.9
19	38352	323	1	86.0	82.9	82.1	83.5	1	25	28.1	27.5	32.9
20	38353	324	1	85.0	82.5	82.3	83.6	1	28	27.3	28.1	33.0
21	38354	325	1	86.0	82.1	82.5	83.7	1	30	26.4	28.4	33.1
22	38355	326	1	87.0	81.8	82.8	83.9	1	34	25.7	29.1	33.2
23	38356	327	1	85.0	81.6	83.1	84.0	1	36	25.7	29.7	33.2
24	38357	328	1	84.0	81.6	83.4	84.2	1	35	26.1	30.4	33.1
25	38358	329	1	82.0	81.5	83.6	84.3	1	32	25.3	30.9	33.0
26	38359	330	1	82.0	81.4	83.9	84.4	1	23	24.0	31.1	32.9
27	38360	331	1	82.0	81.4	84.1	84.4	1	23	23.1	31.4	33.1
28	38361	332	1	79.0	81.0	84.2	84.5	1	21	22.3	31.8	33.2
29	38362	333	1	80.0	80.9	84.3	84.5	1	27	21.3	32.0	33.3
30	38363	334	1	80.0	80.7	84.3	84.6	1	28	20.8	32.1	33.4

MONTHLY AVERAGE 81.2  
MONTHLY SMOOTHED 78.7

23.4  
23.8

GEOMAGNETIC PLANETARY INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	KP	3	KP	4	KP	5	KP	6	KP	7	KP	8	SUM KP	AVG. KP
1	38364 335	1.333	.667	1.000	.667	2.333	1.000	.667	2.333	.667	2.333	1.000	2.333	1.000	2.333	2.333	10.000	1.250
2	38365 336	2.000	2.667	2.333	1.333	3.333	1.333	3.333	3.333	3.333	3.333	3.333	3.000	2.667	3.000	2.667	20.667	2.583
3	38366 337	3.667	4.333	5.667	4.333	4.000	4.667	4.333	4.000	4.667	4.667	4.000	4.667	4.333	4.667	4.667	35.667	4.458
4	38367 338	3.333	4.333	4.000	2.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	5.000	3.667	5.000	3.667	30.333	3.792
5	38368 339	4.667	4.000	3.000	3.333	4.333	4.333	4.333	4.000	4.667	4.667	4.000	4.667	4.667	4.000	4.000	32.000	4.000
6	38369 340	3.667	4.000	3.667	2.667	4.333	4.333	4.333	4.000	3.667	3.667	4.000	3.667	3.667	3.667	3.667	29.667	3.708
7	38370 341	3.333	3.000	3.000	3.000	3.667	3.000	3.000	3.667	3.667	3.000	3.000	2.667	2.667	2.000	2.000	23.667	2.958
8	38371 342	2.667	3.667	3.333	2.667	3.333	3.333	3.333	3.333	3.333	3.000	2.667	2.667	2.667	2.000	2.917	23.333	2.917
9	38372 343	1.000	2.000	2.667	3.000	2.667	3.000	2.667	2.000	.000	.000	.000	.000	.000	.000	.000	13.667	1.708
10	38373 344	.000	.000	.333	.000	.333	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.333	.042
11	38374 345	.000	.667	.000	.333	.667	.000	.333	.667	.333	.333	.000	.333	.333	.333	.333	2.667	.333
12	38375 346	1.000	.333	.333	.667	.333	.333	.667	.333	.333	.000	.000	.667	.667	2.667	6.000	.750	1.667
13	38376 347	3.000	3.333	1.000	1.333	1.000	1.333	1.000	.667	1.667	1.667	1.333	3.667	3.000	1.667	13.333	1.667	2.292
14	38377 348	1.000	1.333	1.667	1.333	3.333	3.333	3.333	3.667	3.000	3.000	3.667	3.000	3.000	1.000	15.333	1.917	1.917
15	38378 349	2.000	1.667	2.333	2.333	1.667	2.333	1.667	2.333	1.667	2.333	2.667	1.333	1.667	1.667	1.625	13.000	1.625
16	38379 350	2.667	1.667	.667	1.000	1.333	2.667	1.333	2.667	1.333	1.000	1.333	1.667	1.333	1.000	7.000	.875	.875
17	38380 351	2.333	.000	1.000	.000	.333	1.000	.333	.000	.333	.000	.667	1.667	1.333	.667	3.333	3.333	.417
18	38381 352	.667	.000	.667	1.000	.333	.000	.667	1.667	1.333	3.667	7.333	3.667	4.000	3.000	27.333	3.417	3.417
19	38382 353	.000	.000	.000	.667	1.667	1.333	2.667	2.333	2.333	2.667	2.333	4.000	1.667	4.000	18.000	2.250	2.250
20	38383 354	3.333	3.333	4.667	3.000	3.333	3.667	3.000	2.333	3.667	2.000	2.667	2.333	3.333	2.667	21.333	2.667	2.667
21	38384 355	1.000	1.333	2.667	1.667	2.333	2.667	2.333	3.667	2.000	3.333	3.333	3.333	3.333	3.333	20.000	2.500	2.500
22	38385 356	1.667	2.667	3.000	2.333	3.667	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.333	2.667	16.667	2.083
23	38386 357	1.333	1.333	3.667	3.333	3.667	3.333	3.333	2.000	.667	.333	.000	.667	.333	.000	5.000	.625	.625
24	38387 358	3.333	1.667	.667	.333	2.000	3.000	.667	1.000	2.667	1.000	.667	.667	.667	1.667	7.667	.958	.958
25	38388 359	.000	.000	1.000	2.667	.667	.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	8.667	1.083
26	38389 360	.333	2.000	.667	1.000	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	18.667	2.333
27	38390 361	1.333	1.333	2.333	.333	1.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	24.000	3.000
28	38391 362	1.667	1.667	3.333	1.667	1.333	2.000	3.667	3.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	21.000	1.375
29	38392 363	3.000	2.000	2.000	4.000	3.667	3.667	3.667	3.667	2.000	2.000	.667	.667	.667	.667	.667	5.000	.625
30	38393 364	2.333	1.333	.333	.667	2.000	2.000	.667	.333	.667	.333	.000	.667	.333	.000	1.333	1.333	1.333
31	38394 365	1.000	.333	.667	.667	.333	.000	.667	.333	.000	.667	.333	.000	.667	.333	.000	5.000	.625

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	MAGNETIC CHARACTER									
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
1	38364	335	5	3	4	3	3	9	4	9	5.000	.2
2	38365	336	7	12	9	5	18	18	12	15	12.000	.9
3	38366	337	22	32	67	32	39	27	32	39	36.250	1.4
4	38367	338	18	32	27	12	22	22	22	48	25.375	1.2
5	38368	339	39	27	15	18	32	27	39	27	28.000	1.3
6	38369	340	22	27	22	12	32	27	22	22	23.250	1.2
7	38370	341	16	15	15	15	22	15	12	7	14.875	.8
8	38371	342	12	22	18	12	18	15	12	7	14.500	.8
9	38372	343	4	7	12	15	12	7	2	0	7.375	.3
10	38373	344	0	0	2	0	0	0	0	0	.250	.0
11	38374	345	0	3	2	2	3	2	2	2	1.750	.0
12	38375	346	4	2	2	3	2	0	3	12	3.500	.1
13	38376	347	15	18	4	5	4	3	6	5	7.500	.3
14	38377	348	4	5	6	5	18	22	15	15	11.250	.7
15	38378	349	7	6	9	9	6	9	7	4	7.125	.3
16	38379	350	12	6	3	4	5	12	5	6	6.625	.3
17	38380	351	9	0	4	0	2	4	5	4	3.500	.1
18	38381	352	3	0	3	4	2	0	0	3	1.875	.0
19	38382	353	0	0	0	0	3	6	5	22	4.500	.3
20	38383	354	19	18	39	15	18	12	27	15	20.250	1.2
21	38384	355	4	5	12	6	9	16	6	27	10.875	.8
22	38385	356	6	12	15	9	22	7	18	12	12.625	.8
23	38386	357	5	5	22	18	2	18	18	18	13.250	.9
24	38387	358	18	6	3	2	7	15	15	12	9.750	.6
25	38388	359	0	0	4	12	3	2	2	0	2.875	.0
26	38389	360	2	7	3	4	3	3	3	6	3.875	.1
27	38390	361	5	5	9	2	6	3	3	2	4.375	.1
28	38391	362	6	6	18	6	5	7	22	18	11.000	.7
29	38392	363	15	7	7	27	22	22	16	9	15.875	1.0
30	38393	364	9	3	2	3	7	7	3	6	5.250	.3
31	38394	365	4	2	3	3	3	2	0	5	2.750	.1

DECEMBER 1963

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	SOLAR FLUX (10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER		
		1-- DAILY 27-DAY	2-- 54-DAY	3-- 81-DAY	1-- DAILY 27-DAY	2-- 54-DAY	3-- 81-DAY
1	38364 335	1	79.0	80.6	84.7	1	28
2	38365 336	1	81.0	80.6	84.7	1	31
3	38366 337	1	80.0	80.7	84.6	1	30
4	38367 338	1	76.0	80.7	84.4	1	30
5	38368 339	1	76.0	80.8	84.1	1	28
6	38369 340	1	77.0	80.0	83.5	1	25
7	38370 341	1	77.0	80.9	83.3	1	17
8	38371 342	1	78.0	80.9	83.1	1	13
9	38372 343	1	79.0	81.0	83.0	1	32
10	38373 344	1	80.0	81.0	82.9	1	27
11	38374 345	1	81.0	81.1	82.9	1	26
12	38375 346	1	81.0	81.2	82.8	1	18
13	38376 347	1	82.0	81.2	82.7	1	10
14	38377 348	1	80.0	81.2	82.4	1	8
15	38378 349	1	81.0	81.1	82.1	1	7
16	38379 350	1	79.0	80.9	81.9	1	7
17	38380 351	1	79.0	80.6	81.6	1	8
18	38381 352	1	80.0	80.4	81.3	1	17
19	38382 353	1	79.0	80.1	80.9	1	15
20	38383 354	1	80.0	79.9	80.8	1	17
21	38384 355	1	80.0	79.4	80.7	1	14
22	38385 356	1	78.0	79.6	80.6	1	13
23	38386 357	1	77.0	79.4	80.4	1	9
24	38387 358	1	76.0	79.2	80.3	1	16
25	38388 359	1	76.0	79.1	80.1	1	8
26	38389 360	1	75.0	78.9	79.7	1	7
27	38390 361	1	75.0	78.7	79.7	1	0
28	38391 362	1	74.0	78.6	79.6	1	0
29	38392 363	1	73.0	78.3	79.4	1	0
30	38393 364	1	70.0	77.9	79.3	1	0
31	38394 365	1	72.0	77.7	79.2	1	0

MONTHLY AVERAGE 77.9  
MONTHLY SMOOTHED 77.3

14.9  
21.3

# QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY	MOD.	DAY	KP	KP	KP	KP	KP	KP	KP	KP	SUM	AVG.
OF	JULIAN	OF	1	2	3	4	5	6	7	8	KP	KP
MONTH	DAY	YEAR										
1	38395	1	1.000	.333	1.667	1.667	1.667	2.000	2.333	1.667	12.333	1.542
2	38396	2	1.333	6.000	6.333	6.667	5.333	3.667	4.000	3.000	37.333	4.667
3	38397	3	4.333	4.333	2.667	3.000	3.333	3.667	3.333	3.667	28.333	3.542
4	38398	4	4.333	4.333	2.667	2.000	3.333	3.333	3.333	3.000	26.333	3.292
5	38399	5	2.333	2.333	2.667	1.333	2.000	1.333	2.333	1.333	15.667	1.958
6	38400	6	2.333	2.000	1.000	1.667	1.333	1.000	1.000	1.000	11.333	1.417
7	38401	7	.000	1.000	1.667	2.333	3.333	2.000	1.667	1.000	13.000	1.625
8	38402	8	1.333	.667	.333	1.333	1.333	1.000	2.667	2.667	11.333	1.417
9	38403	9	4.000	3.667	2.667	2.667	2.000	3.000	3.667	4.667	26.333	3.292
10	38404	10	4.667	4.667	4.000	2.000	3.000	3.000	1.667	3.667	26.667	3.333
11	38405	11	2.667	2.667	2.333	1.667	2.000	1.667	2.000	1.667	16.667	2.083
12	38406	12	3.000	2.000	.333	.000	1.000	1.333	1.667	1.333	10.667	1.333
13	38407	13	2.333	2.667	1.000	.667	1.000	.333	1.000	1.667	10.667	1.333
14	38408	14	.667	.000	.000	.333	.000	.333	.333	.333	2.000	.250
15	38409	15	.000	.000	.000	.000	.667	.667	.333	1.000	2.667	.333
16	38410	16	2.667	3.333	3.333	5.000	4.000	5.000	4.000	3.000	30.333	3.792
17	38411	17	4.000	3.667	4.333	3.667	3.000	1.667	1.667	1.667	23.333	2.917
18	38412	18	2.667	2.333	1.667	1.667	1.333	1.333	2.667	.333	14.000	1.750
19	38413	19	.000	.333	1.000	.333	2.333	2.333	3.667	2.000	12.000	1.500
20	38414	20	3.000	2.000	1.000	1.667	1.667	1.333	.667	1.000	12.333	1.542
21	38415	21	1.333	1.000	.333	.000	.000	.000	.333	.333	3.333	.417
22	38416	22	2.000	1.333	1.000	.667	.667	1.333	.333	.333	7.667	.958
23	38417	23	.667	.333	.333	1.333	1.333	2.000	.667	1.000	7.667	.958
24	38418	24	2.000	3.000	7.333	2.667	3.667	2.333	1.667	2.333	20.300	2.500
25	38419	25	4.000	1.333	3.000	1.000	1.000	1.000	4.333	4.667	20.333	2.542
26	38420	26	3.333	.667	1.333	1.000	2.000	.667	2.333	1.667	13.000	1.625
27	38421	27	2.000	.333	.667	.333	.333	.333	1.667	1.667	7.333	.917
28	38422	28	1.000	2.333	2.333	1.333	2.000	1.333	3.333	3.333	17.000	2.125
29	38423	29	3.667	4.000	4.000	3.333	4.000	3.667	2.667	2.667	28.000	3.500
30	38424	30	3.333	2.000	2.000	2.000	3.000	2.333	1.333	2.667	18.667	2.333
31	38425	31	1.333	.667	1.333	5.000	4.333	5.000	5.000	3.667	26.333	3.292

JANUARY 1964

GEOMAGNETIC PLANETARY INDICES  
PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. OF JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	38395	1	4	2	4	6	6	7	9	6	5	5.750			.4
2	38396	2	5	30	94	111	56	39	27	15	53.375				1.6
3	38397	3	32	32	12	15	18	22	18	22	21.375				1.1
4	38398	4	32	32	12	7	18	19	18	15	19.000				.9
5	38399	5	9	9	12	5	7	5	9	5	7.625				.4
6	38400	6	9	7	4	6	5	4	4	4	5.375				.1
7	38401	7	0	4	6	9	18	7	6	4	6.750				.5
8	38402	8	5	3	2	5	5	4	12	12	6.000				.5
9	38403	9	27	22	12	12	7	15	22	39	19.500				1.1
10	38404	10	39	39	27	7	15	15	6	22	21.250				1.0
11	38405	11	12	12	4	6	7	6	7	6	8.125				.2
12	38406	12	15	7	2	0	4	5	6	5	5.500				.2
13	38407	13	9	12	4	3	4	2	4	6	5.500				.1
14	38408	14	3	0	0	2	0	2	2	2	1.375				.0
15	38409	15	0	0	0	0	3	3	2	4	1.500				.0
16	38410	16	12	18	16	48	27	48	27	15	26.625				1.2
17	38411	17	27	22	32	22	15	6	6	5	16.875				.6
18	38412	18	12	9	6	6	5	5	12	2	7.125				.5
19	38413	19	0	2	4	2	9	9	22	7	6.875				.5
20	38414	20	15	7	4	6	6	5	3	4	6.250				.2
21	38415	21	5	4	2	0	0	0	2	2	1.875				.0
22	38416	22	7	5	4	3	3	5	2	2	3.875				.1
23	38417	23	3	2	2	5	5	7	3	4	3.875				.3
24	38418	24	7	15	9	12	22	9	6	9	11.125				.9
25	38419	25	27	5	15	4	4	4	32	39	16.250				1.0
26	38420	26	10	3	5	4	7	3	9	6	6.875				.4
27	38421	27	7	2	3	2	2	2	6	6	3.750				.3
28	38422	28	4	9	9	5	7	5	18	18	9.375				.7
29	38423	29	22	27	27	19	27	22	12	12	20.875				1.1
30	38424	30	18	7	7	7	15	9	5	12	10.000				.6
31	38425	31	5	3	5	48	32	48	48	22	26.375				1.2



JANUARY 1964

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS---	1---UNHING MEANS---						
		DAILY 27-DAY	81-DAY	DAILY 27-DAY	81-DAY						
1	38395	1	72.0	77.5	79.1	81.6	1	0	11.6	17.1	24.9
2	38396	2	71.0	77.3	79.1	81.4	1	14	11.2	17.2	24.6
3	38397	3	74.0	77.2	79.0	81.3	1	8	10.9	17.3	24.0
4	38398	4	74.0	77.0	79.0	81.1	1	7	10.7	17.3	23.5
5	38399	5	74.0	76.9	78.9	81.0	1	13	10.0	17.3	23.0
6	38400	6	76.0	76.7	78.9	80.9	1	17	9.6	17.5	22.6
7	38401	7	76.0	76.5	78.8	80.8	1	20	9.4	17.8	22.4
8	38402	8	74.0	76.2	78.7	80.6	1	16	9.3	17.9	22.2
9	38403	9	74.0	75.9	78.6	80.4	1	13	9.4	17.8	21.9
10	38404	10	74.0	75.7	78.4	80.2	1	15	9.7	17.7	21.7
11	38405	11	75.0	75.4	78.3	79.9	1	19	10.1	17.5	21.3
12	38406	12	77.0	75.4	78.1	79.7	1	20	10.6	17.4	21.0
13	38407	13	77.0	75.3	78.0	79.5	1	27	11.3	17.4	20.7
14	38408	14	76.0	75.1	77.8	79.2	1	24	11.6	17.3	20.3
15	38409	15	75.0	75.0	77.6	79.0	1	22	11.8	17.1	20.0
16	38410	16	75.0	74.8	77.4	78.8	1	16	11.8	16.7	19.7
17	38411	17	72.0	74.5	77.1	78.6	1	20	12.0	16.4	19.6
18	38412	18	74.0	74.4	77.0	78.5	1	7	11.8	15.9	19.0
19	38413	19	75.0	74.3	76.9	78.4	1	14	12.0	15.8	18.5
20	38414	20	76.0	74.3	76.8	78.3	1	11	11.8	15.6	18.1
21	38415	21	75.0	74.3	76.7	78.1	1	11	11.9	15.4	17.7
22	38416	22	75.0	74.3	76.6	78.0	1	11	12.0	15.1	17.2
23	38417	23	75.0	74.3	76.5	77.9	1	11	12.4	14.8	16.8
24	38418	24	75.0	74.3	76.4	77.8	1	18	13.1	14.6	16.5
25	38419	25	74.0	74.3	76.3	77.7	1	17	13.7	14.3	16.4
26	38420	26	74.0	74.5	76.2	77.7	1	10	14.1	13.9	16.3
27	38421	27	74.0	74.6	76.1	77.7	1	9	14.4	13.6	16.3
28	38422	28	76.0	74.8	76.1	77.7	1	24	15.3	13.5	16.5
29	38423	29	76.0	75.0	76.2	77.7	1	27	15.8	13.5	16.7
30	38424	30	75.0	75.1	76.1	77.7	1	22	16.3	13.6	17.0
31	38425	31	75.0	75.1	76.1	77.7	1	11	16.5	13.6	17.0

MONTHLY AVERAGE 74.3  
MONTHLY SMOOTHED 76.3

15.3  
19.5

FEBRUARY 1964

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38426	32	3.000	2.667	1.333	1.667	1.667	2.667	3.333	18.000	2.250
2	38427	33	3.333	1.667	2.000	1.667	2.667	.333	.000	14.333	1.792
3	38428	34	.000	.333	.333	1.000	.333	.667	1.333	4.333	.542
4	38429	35	1.000	2.333	4.000	3.667	3.333	2.000	2.000	19.333	2.417
5	38430	36	1.000	2.667	1.333	1.333	1.667	2.667	4.667	16.667	2.083
6	38431	37	4.333	5.000	5.333	4.333	4.000	3.000	3.667	32.667	4.083
7	38432	38	2.667	3.667	2.667	3.667	1.667	2.333	3.333	23.667	2.958
8	38433	39	4.000	2.000	1.000	2.000	1.333	3.667	5.667	23.000	2.875
9	38434	40	4.000	3.333	2.667	2.667	2.667	2.333	2.667	23.333	2.917
10	38435	41	2.667	2.000	1.000	1.667	1.333	2.000	2.333	15.000	1.875
11	38436	42	1.667	1.000	.667	.333	1.000	.333	.667	6.000	.750
12	38437	43	1.333	2.000	3.333	4.000	3.333	2.333	2.667	22.333	2.792
13	38438	44	4.000	5.000	4.667	5.000	3.667	3.333	2.667	33.000	4.125
14	38439	45	1.000	3.333	2.667	2.333	2.333	2.000	2.667	18.333	2.292
15	38440	46	2.000	1.000	2.000	1.667	2.667	2.667	.667	14.000	1.750
16	38441	47	.667	.667	2.000	2.000	1.333	1.667	1.000	10.333	1.292
17	38442	48	1.333	.667	1.667	1.667	2.000	2.333	.667	13.000	1.625
18	38443	49	.333	.333	1.667	1.667	1.000	1.333	1.000	9.667	1.200
19	38444	50	.333	1.000	.667	.333	.000	.667	.000	3.000	.375
20	38445	51	.000	.667	1.333	2.667	2.667	4.000	5.333	21.000	2.625
21	38446	52	4.667	3.667	2.667	3.000	2.333	2.667	1.000	22.333	2.792
22	38447	53	1.333	1.000	1.667	1.000	2.000	3.000	2.000	13.667	1.708
23	38448	54	2.000	1.000	1.667	.667	.667	3.000	1.000	13.333	1.667
24	38449	55	.000	1.667	1.333	2.333	2.333	1.333	3.000	13.667	1.708
25	38450	56	1.333	2.000	2.000	3.333	1.667	4.000	3.000	23.000	2.875
26	38451	57	2.667	4.333	2.667	4.333	4.333	.667	3.000	24.000	3.000
27	38452	58	4.000	2.667	1.000	2.000	1.667	4.000	2.667	22.000	2.750
28	38453	59	3.333	4.000	3.667	3.667	3.000	2.333	1.000	24.667	3.083
29	38454	60	1.667	3.333	2.667	1.667	1.000	2.000	2.333	16.333	2.042

MAGNETIC  
CHARACTER

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER									
			1	2	3	4	5	6	7	8	APG	AP
1	38426	32	15	12	5	6	6	6	12	18	10.000	.7
2	38427	33	18	6	7	6	12	12	2	0	7.875	.4
3	38428	34	0	2	2	2	4	2	3	5	2.500	.0
4	38429	35	4	9	27	22	13	7	4	7	12.250	.0
5	38430	36	4	12	5	5	5	6	12	39	11.000	.9
6	38431	37	32	43	56	32	27	15	15	22	30.675	1.3
7	38432	38	12	22	12	22	6	22	9	18	15.375	.9
8	38433	39	27	7	4	7	5	18	22	67	19.625	1.1
9	38434	40	27	13	12	12	12	15	9	12	14.625	.8
10	38435	41	12	7	4	6	5	7	7	9	7.125	.4
11	38436	42	6	4	3	2	4	2	2	3	3.250	.0
12	38437	43	5	7	18	27	16	18	9	12	14.250	.8
13	38438	44	27	48	39	48	22	39	18	12	31.625	1.3
14	38439	45	4	18	12	9	9	7	7	12	9.750	.7
15	38440	46	7	4	7	6	12	5	12	3	7.000	.4
16	38441	47	3	3	7	7	5	4	6	4	4.875	.2
17	38442	48	5	3	6	6	6	12	9	3	6.375	.4
18	38443	49	2	2	6	6	4	9	5	4	4.750	.3
19	38444	50	2	4	3	2	0	0	3	0	1.750	.0
20	38445	51	0	3	5	12	12	32	27	56	18.375	1.2
21	38446	52	39	22	12	15	9	9	12	4	15.250	1.0
22	38447	53	5	4	6	4	7	6	15	7	6.750	.5
23	38448	54	7	4	6	3	3	18	15	4	7.500	.4
24	38449	55	0	6	5	9	7	8	5	15	6.875	.4
25	38450	56	5	7	7	18	6	27	67	15	19.000	1.1
26	38451	57	12	32	12	32	32	7	3	15	18.125	1.0
27	38452	58	27	12	4	7	6	27	27	12	15.250	.9
28	38453	59	18	27	22	22	15	22	7	4	17.375	1.0
29	38454	60	6	18	12	6	4	6	7	9	8.500	.3

DAILY SOLAR FLUX AND RELATIVE ZÜRICH SUNSPOT NUMBER ACTIVITY

MONTHLY AVERAGE	76.2
MONTHLY SMOOTHED	75.5

$$\frac{17.7}{17.8}$$

# GEOGRAPHIC PLANETARY INDICES

# QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY		JULIAN OF										SUM KP	AVG. KP
	DAY	YEAR	1	2	3	4	5	6	7	8				
1	38455	61	2.000	.667	.667	.667	1.333	.667	1.333	.667	1.333	.667	8.000	1.000
2	38456	62	.000	.000	.667	.667	.000	.000	.333	.000	.667	.667	1.667	.208
3	38457	63	1.000	.333	1.333	1.333	1.667	1.667	1.333	2.000	3.667	13.000	1.625	
4	38458	64	4.667	5.667	4.667	4.667	5.000	4.667	6.000	5.000	5.333	41.000	5.125	
5	38459	65	5.667	3.667	4.000	4.000	3.000	4.333	3.667	4.667	4.667	33.667	4.208	
6	38460	66	4.000	3.667	2.333	3.333	3.000	4.000	4.000	3.000	1.667	25.000	3.125	
7	38461	67	3.667	2.333	2.000	2.333	2.333	2.000	3.333	3.000	3.000	21.000	2.625	
8	38462	68	3.667	3.333	4.000	2.667	3.333	2.000	3.000	3.000	3.667	25.667	3.208	
9	38463	69	2.667	4.000	3.333	2.333	.667	.667	.667	.333	.000	14.000	1.750	
10	38464	70	.000	.333	1.000	.667	1.000	1.667	1.667	2.333	1.333	8.333	1.042	
11	38465	71	1.000	2.000	3.000	3.000	1.667	1.667	1.333	1.667	1.000	14.667	1.633	
12	38466	72	3.667	4.667	3.000	2.667	3.000	3.000	3.000	1.333	1.667	23.000	2.875	
13	38467	73	1.333	2.667	1.667	3.333	2.667	.667	.667	1.333	2.000	15.667	1.958	
14	38468	74	2.000	1.667	2.333	2.000	2.333	1.667	3.667	3.000	3.000	18.667	2.333	
15	38469	75	3.000	2.667	2.000	1.000	2.333	2.667	3.333	2.333	2.333	19.333	2.417	
16	38470	76	3.333	2.333	2.333	1.667	1.667	2.667	1.667	1.667	1.667	16.333	2.042	
17	38471	77	2.333	2.000	3.667	3.667	2.000	1.333	1.333	1.000	.667	16.667	2.083	
18	38472	78	.333	.333	1.667	1.333	.667	.667	.667	1.000	.333	6.333	.792	
19	38473	79	.667	.333	1.667	.333	1.000	.667	.667	.667	1.000	6.333	.792	
20	38474	80	.667	1.333	1.667	2.000	1.667	1.667	1.667	3.667	1.667	14.333	1.792	
21	38475	81	3.667	3.333	2.333	1.333	1.000	1.333	3.333	3.333	2.667	19.000	2.375	
22	38476	82	2.000	1.333	1.667	3.000	5.000	5.000	4.667	5.667	4.667	28.000	3.500	
23	38477	83	3.333	4.667	4.000	6.000	3.000	3.000	4.000	4.000	2.333	31.333	3.917	
24	38478	84	2.000	4.000	3.333	3.667	3.333	3.333	4.667	2.667	1.667	25.333	3.167	
25	38479	85	4.000	3.333	3.000	1.667	3.000	2.667	3.667	3.667	3.000	24.333	3.042	
26	38480	86	3.333	4.000	2.667	1.667	2.667	1.000	1.667	1.667	.667	17.667	2.208	
27	38481	87	1.333	.000	2.000	.333	.333	.667	.667	.333	1.000	6.000	.750	
28	38482	88	.000	.000	.333	.333	.000	.000	.333	.000	.000	.667	.083	
29	38483	89	.000	.000	.000	.000	1.333	1.333	1.333	2.000	2.333	7.000	.875	
30	38484	90	2.667	4.667	3.333	3.667	3.667	3.667	3.667	3.333	2.333	29.333	3.667	
31	38485	91	.333	.000	.667	1.000	.333	.667	.667	1.333	.667	5.000	.625	

GEOMAGNETIC PLANETARY INDICES

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PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

335

MARCH 1964

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	I-----SOLAR FLUX(10.7CM OTTAWA)-----I					I---RELATIVE ZURICH SUNSPOT NUMBER---I					
		I-----RUNNING MEANS-----I					I-----RUNNING MEANS-----I					
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	38455	61	77.0	76.7	75.7	75.0	76.0	1	27	20.0	17.3	14.7
2	38456	62	75.0	76.9	75.8	75.9	75.9	1	8	20.3	17.1	14.5
3	38457	63	74.0	76.9	75.8	75.6	75.6	1	13	20.7	17.1	14.6
4	38458	64	75.0	77.0	75.8	75.7	75.7	1	7	21.0	17.0	14.6
5	38459	65	72.0	77.0	75.7	75.6	75.6	1	7	20.9	16.8	14.6
6	38460	66	73.0	77.0	75.6	75.6	75.6	1	0	20.4	16.4	14.5
7	38461	67	73.0	77.0	75.6	75.5	75.5	1	15	20.3	16.2	14.6
8	38462	68	74.0	77.1	75.5	75.4	75.4	1	9	20.3	15.9	14.5
9	38463	69	71.0	77.0	75.5	75.3	75.3	1	8	20.3	15.4	14.4
10	38464	70	73.0	77.0	75.4	75.2	75.2	1	0	20.3	15.4	14.2
11	38465	71	75.0	77.1	75.5	75.2	75.2	1	14	20.9	15.2	14.2
12	38466	72	77.0	77.3	75.5	75.1	75.1	1	23	21.4	15.5	14.3
13	38467	73	78.0	77.4	75.6	75.2	75.2	1	40	22.4	16.0	14.7
14	38468	74	79.0	77.7	75.6	75.2	75.2	1	32	23.0	16.4	14.9
15	38469	75	79.0	77.9	75.7	75.2	75.2	1	29	23.3	16.7	15.1
16	38470	76	77.0	77.9	75.8	75.3	75.3	1	28	23.7	17.1	15.4
17	38471	77	77.0	77.9	75.8	75.3	75.3	1	20	24.0	17.2	15.6
18	38472	78	75.0	77.9	75.8	75.3	75.3	1	8	23.4	17.0	15.7
19	38473	79	74.0	77.7	75.8	75.3	75.3	1	10	22.4	16.9	15.9
20	38474	80	74.0	77.5	75.8	75.4	75.4	1	11	21.2	16.9	16.0
21	38475	81	74.0	77.1	75.8	75.4	75.4	1	20	20.0	17.1	16.2
22	38476	82	76.0	76.9	75.8	75.5	75.5	1	32	19.5	17.3	16.6
23	38477	83	77.0	76.6	75.8	75.5	75.5	1	30	19.3	17.3	16.8
24	38478	84	77.0	76.2	75.8	75.6	75.6	1	27	19.0	17.4	17.1
25	38479	85	74.0	75.8	75.8	75.6	75.6	1	23	18.6	17.6	17.3
26	38480	86	74.0	75.4	75.8	75.6	75.6	1	20	18.1	18.0	17.3
27	38481	87	75.0	75.2	75.9	75.6	75.6	1	16	17.7	18.3	17.3
28	38482	88	75.0	75.1	75.9	75.5	75.5	1	14	17.2	18.6	17.3
29	38483	89	75.0	75.1	76.0	75.6	75.6	1	7	17.1	18.7	17.1
30	38484	90	78.0	75.3	76.1	75.6	75.6	1	7	16.9	18.8	17.1
31	38485	91	77.0	75.4	76.2	75.6	75.6	1	7	16.9	19.0	17.0

MONTHLY AVERAGE 75.4  
MONTHLY SMOOTHED 74.4

16.5  
15.4

APRIL 1964

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

JAY OF MONTH	MOD. DAY JULIAN DAY	DAY OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38486	92	.667	.000	.667	1.333	3.333	6.333	6.333	6.333	7.333	26.000	3.250
2	38487	93	5.333	4.333	3.333	3.333	3.000	2.667	4.000	4.333	3.333	30.333	3.792
3	38488	94	3.667	4.333	2.333	3.333	3.333	3.333	3.333	2.667	3.000	26.000	3.250
4	38489	95	3.667	3.000	2.667	1.667	1.667	1.667	2.000	1.333	2.667	18.667	2.333
5	38490	96	2.333	3.000	1.333	2.667	1.333	1.667	1.667	2.333	4.000	18.667	2.333
6	38491	97	2.333	2.000	.667	1.000	.667	.667	.667	1.333	3.000	11.667	1.458
7	38492	98	3.000	2.000	3.000	1.000	2.333	2.333	2.333	3.333	2.000	19.000	2.375
8	38493	99	2.667	2.000	3.333	4.000	3.000	3.000	1.667	3.333	2.333	22.333	2.792
9	38494	100	2.333	3.333	1.667	2.333	2.000	1.333	1.333	.667	.000	13.667	1.708
10	38495	101	.667	.333	1.667	3.333	1.333	1.333	.333	.333	.667	8.667	1.083
11	38496	102	.000	1.333	2.000	3.000	4.667	3.667	3.667	3.000	1.333	19.000	2.375
12	38497	103	.667	1.333	1.333	.333	.333	.333	.667	.667	2.000	7.333	.917
13	38498	104	1.667	1.667	1.000	.333	.333	.333	1.333	1.667	2.000	10.000	1.750
14	38499	105	1.667	.667	.333	1.667	2.000	2.000	.667	.333	.667	6.000	1.000
15	38500	106	1.000	.667	1.000	3.000	3.000	3.000	2.333	1.333	3.333	15.667	1.958
16	38501	107	3.333	2.667	2.333	1.333	2.667	2.667	2.333	1.333	1.333	17.333	2.167
17	38502	108	4.000	3.667	4.000	2.667	2.333	2.333	3.000	2.333	2.000	24.000	3.000
18	38503	109	.333	.667	2.000	4.000	5.000	5.000	6.667	3.667	3.333	23.667	2.958
19	38504	110	4.000	3.333	2.333	4.667	3.333	3.333	3.333	3.667	3.667	28.333	3.542
20	38505	111	3.000	2.333	4.333	2.000	1.333	1.333	2.667	3.000	4.000	22.333	2.792
21	38506	112	3.667	1.667	1.333	1.333	2.000	1.667	1.333	2.333	2.333	16.333	2.042
22	38507	113	.333	.000	.667	1.000	.333	.333	.333	.667	.667	4.000	.500
23	38508	114	1.333	1.333	1.000	.333	.333	.333	.333	.667	1.000	6.333	.792
24	38509	115	.000	.667	.333	1.667	.667	.667	1.000	1.333	1.333	7.000	.875
25	38510	116	1.667	1.333	1.667	3.333	3.333	3.333	2.000	2.667	3.333	19.333	2.417
26	38511	117	2.667	3.667	3.000	3.000	1.667	1.667	1.667	2.000	1.667	18.000	2.250
27	38512	118	2.333	2.667	3.000	3.000	3.333	5.333	5.000	5.000	4.667	29.333	3.667
28	38513	119	5.333	5.000	5.000	4.667	3.667	3.667	2.000	3.333	4.000	33.000	4.125
29	38514	120	5.000	3.333	2.333	2.000	2.333	2.333	2.000	4.000	1.000	22.000	2.750
30	38515	121	.667	.333	.333	.667	1.000	1.000	3.000	3.333	4.667	14.000	1.750



# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

APRIL 1964

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. JULIAN DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----1				1-----RELATIVE ZURICH SUNSPOT NUMBER-----1				
		DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1		38486	92	77.0	75.6	76.3	75.7	10	17.0	19.0	16.9
2		38487	93	75.0	75.6	76.3	75.6	0	17.0	18.7	16.6
3		38488	94	76.0	75.7	76.4	75.6	13	17.0	18.6	15.4
4		38489	95	76.0	75.8	76.4	75.6	0	16.6	18.5	16.1
5		38490	96	76.0	76.0	76.5	75.6	10	16.7	18.5	16.0
6		38491	97	75.0	76.1	76.6	75.6	11	17.1	18.7	15.9
7		38492	98	75.0	76.1	76.6	75.7	15	17.1	19.0	15.9
8		38493	99	73.0	75.9	76.6	75.7	13	16.8	19.1	16.0
9		38494	100	75.0	75.8	76.6	75.7	10	15.7	19.0	15.9
10		38495	101	72.0	75.6	76.6	75.6	9	14.8	18.9	15.9
11		38496	102	74.0	75.4	76.6	75.6	8	14.0	18.6	15.8
12		38497	103	72.0	75.2	76.5	75.6	7	13.3	18.5	15.8
13		38498	104	73.0	75.0	76.5	75.5	7	12.8	18.4	15.7
14		38499	105	71.0	74.9	76.4	75.5	7	12.7	18.1	15.6
15		38500	106	71.0	74.8	76.2	75.5	7	12.6	17.5	15.5
16		38501	107	70.0	74.6	76.1	75.4	7	12.5	16.9	15.4
17		38502	108	71.0	74.5	75.0	75.4	13	12.2	16.1	15.5
18		38503	109	71.0	74.3	75.6	75.3	7	11.3	15.4	15.3
19		38504	110	70.0	74.0	75.3	75.2	0	10.2	14.7	15.0
20		38505	111	71.0	73.8	75.0	75.1	9	9.5	14.3	14.8
21		38506	112	71.0	73.7	74.7	75.1	19	9.4	14.0	14.9
22		38507	113	70.0	73.5	74.5	75.0	17	9.3	13.7	15.1
23		38508	114	70.0	73.3	74.3	75.0	16	9.3	13.5	15.3
24		38509	115	71.0	73.2	74.2	75.0	23	9.6	13.4	15.6
25		38510	116	70.0	73.0	74.1	75.0	12	9.8	13.5	15.7
26		38511	117	69.0	72.7	74.0	75.0	7	9.8	13.4	15.8
27		38512	118	69.0	72.4	73.9	74.9	0	9.5	13.2	15.8
28		38513	119	69.0	72.1	73.8	74.9	0	9.1	13.1	15.7
29		38514	120	68.0	71.8	73.7	74.8	0	9.1	13.1	15.5
30		38515	121	69.0	71.6	73.6	74.8	0	8.7	12.8	15.3

MONTHLY AVERAGE 72.0  
MONTHLY SMOOTHED 73.2

8.6  
12.7

MAY 1964

# GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY MOD. DAY OF JULIAN OF MONTH DAY YEAR			KP										SUM KP		AVG. KP																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	38516	122	6.000	3.667	3.333	3.667	3.000	2.667	2.000	2.333	2.667	3.333	2.667	2.000	2.333	2.667	3.333	2.667	2.000	2.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667
2	38517	123	2.333	2.667	4.000	2.333	2.000	1.333	1.000	1.333	1.667	2.333	1.667	1.000	1.333	1.667	2.333	1.667	1.000	1.333	1.667	2.333	1.667	2.333	1.667	2.333	1.667	2.333	1.667	2.333	1.667
3	38518	124	2.000	1.667	.667	1.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667
4	38519	125	1.000	.667	1.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667
5	38520	126	2.333	3.000	2.333	3.000	2.667	.667	1.000	.333	1.667	2.333	1.667	1.000	.333	1.667	2.333	1.667	1.000	.333	1.667	2.333	1.667	1.000	.333	1.667	2.333	1.667	1.000	.333	1.667
6	38521	127	.000	.000	1.333	1.000	1.000	1.333	2.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667
7	38522	128	.667	1.667	1.000	1.000	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333
8	38523	129	.000	.000	.333	.000	.000	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333
9	38524	130	.333	.333	.000	.333	.667	.667	.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667
10	38525	131	3.000	1.667	2.667	1.333	3.333	4.000	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	4.667	
11	38526	132	5.333	5.000	4.000	1.000	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000	1.333	1.000
12	38527	133	.667	1.000	1.333	1.000	.333	.000	.000	.333	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
13	38528	134	.000	.000	1.333	1.333	3.667	4.667	5.333	3.333	3.667	4.667	5.333	3.333	3.667	4.667	5.333	3.333	3.667	4.667	5.333	3.333	3.667	4.667	5.333	3.333	3.667	4.667	5.333	3.333	3.667
14	38529	135	2.000	2.000	4.000	3.333	5.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333	5.667	3.333
15	38530	136	2.667	6.000	5.000	3.333	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667
16	38531	137	4.000	3.000	4.667	4.000	3.000	2.333	4.333	2.000	2.333	4.333	2.000	2.333	4.333	2.000	2.333	4.333	2.000	2.333	4.333	2.000	2.333	4.333	2.000	2.333	4.333	2.000	2.333	4.333	2.000
17	38532	138	1.333	1.333	2.333	2.333	2.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
18	38533	139	.667	2.000	1.667	2.333	1.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667
19	38534	140	1.667	1.000	1.333	1.333	.333	1.000	1.667	1.000	1.333	1.000	1.667	1.000	1.333	1.000	1.667	1.000	1.333	1.000	1.667	1.000	1.333	1.000	1.667	1.000	1.333	1.000	1.667	1.000	1.333
20	38535	141	.333	.667	.667	.667	1.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667
21	38536	142	.333	1.000	1.000	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
22	38537	143	.333	1.000	1.000	1.000	1.333	.667	1.000	1.333	.667	1.000	1.333	.667	1.000	1.333	.667	1.000	1.333	.667	1.000	1.333	.667	1.000	1.333	.667	1.000	1.333	.667	1.000	1.333
23	38538	144	1.667	1.667	1.000	.667	1.000	1.000	1.000	.667	1.000	1.000	1.000	.667	1.000	1.000	.667	1.000	1.000	.667	1.000	1.000	.667	1.000	1.000	.667	1.000	1.000	.667	1.000	1.000
24	38539	145	3.667	4.667	4.000	3.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333	2.667	3.333
25	38540	146	2.000	1.000	5.333	6.333	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667	3.667
26	38541	147	3.667	1.000	1.667	.333	2.000	1.667	1.333	.667	1.667	1.333	.667	1.667	1.333	.667	1.667	1.333	.667	1.667	1.333	.667	1.667	1.333	.667	1.667	1.333	.667	1.667	1.333	.667
27	38542	148	2.000	2.333	3.667	3.333	2.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667	2.000	1.667
28	38543	149	2.000	1.667	1.333	2.000	1.667	1.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667	2.667
29	38544	150	1.333	2.000	1.333	.667	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333	.333	1.333
30	38545	151	1.333	.667	.667	1.333	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
31	38546	152	1.333	1.667	1.000	1.000	1.000	.667	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333	.333

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (API) INDICES

341

MAY 1964

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY		MOD. DAY		1-----SOLAR FLUX(10.7CM OTTAWA)-----1		1-----RELATIVE ZURICH SUNSPOT NUMBER-----1						
JULIAN OF		YEAR		1-----RUNNING MEANS-----1		1-----RUNNING MEANS-----1						
MONTH	DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY				
1	38516	122	1	68.0	71.3	73.5	74.7	1	7	8.9	12.8	15.3
2	38517	123	1	68.0	71.0	73.5	74.7	1	0	8.6	12.6	15.2
3	38518	124	1	69.0	70.7	73.4	74.6	1	0	8.1	12.6	15.2
4	38519	125	1	70.0	70.6	73.3	74.6	1	10	8.0	12.6	15.3
5	38520	126	1	71.0	70.5	73.2	74.6	1	14	8.0	12.4	15.4
6	38521	127	1	70.0	70.3	73.1	74.5	1	11	8.0	11.9	15.4
7	38522	128	1	70.0	70.2	72.9	74.5	1	11	8.1	11.5	15.3
8	38523	129	1	71.0	70.1	72.7	74.4	1	10	8.2	11.1	15.2
9	38524	130	1	70.0	70.0	72.6	74.4	1	7	8.2	10.7	15.1
10	38525	131	1	70.0	69.9	72.5	74.3	1	7	8.2	10.5	15.0
11	38526	132	1	70.0	69.9	72.4	74.2	1	7	8.2	10.5	14.8
12	38527	133	1	79.0	70.2	72.5	74.2	1	0	7.9	10.3	14.3
13	38528	134	1	68.0	70.1	72.4	74.1	1	0	7.7	10.1	13.8
14	38529	135	1	68.0	70.0	72.3	73.9	1	9	7.5	9.9	13.2
15	38530	136	1	68.0	69.9	72.1	73.7	1	17	7.9	9.6	12.9
16	38531	137	1	70.0	69.9	71.9	73.5	1	17	8.5	9.4	12.7
17	38532	138	1	69.0	69.8	71.8	73.3	1	23	9.0	9.3	12.5
18	38533	139	1	70.0	69.8	71.7	73.1	1	11	8.7	9.1	12.2
19	38534	140	1	68.0	69.7	71.6	72.9	1	9	8.4	8.9	11.9
20	38535	141	1	67.0	69.6	71.5	72.7	1	7	8.1	8.7	11.7
21	38536	142	1	68.0	69.5	71.3	72.6	1	7	7.5	8.6	11.4
22	38537	143	1	67.0	69.4	71.2	72.5	1	18	7.7	8.8	11.6
23	38538	144	1	67.0	69.3	71.0	72.4	1	13	8.0	9.9	11.6
24	38539	145	1	68.0	69.3	70.8	72.3	1	11	8.4	8.9	11.6
25	38540	146	1	67.0	69.2	70.6	72.3	1	11	8.8	9.0	11.7
26	38541	147	1	68.0	69.2	70.5	72.2	1	14	9.3	9.2	11.8
27	38542	148	1	67.0	69.1	70.3	72.1	1	8	9.6	9.1	11.7
28	38543	149	1	69.0	69.1	70.2	72.1	1	8	9.6	9.3	11.7
29	38544	150	1	69.0	69.2	70.1	72.0	1	8	9.9	9.2	11.7
30	38545	151	1	68.0	69.1	69.9	72.0	1	9	10.3	9.2	11.8
31	38546	152	1	67.0	69.0	69.8	71.9	1	9	10.2	9.1	11.8

MONTHLY AVERAGE 69.0

9.5

MONTHLY SMOOTHED 72.4

10.8

JUNE 1964

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MO. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38547 153	.333	1.333	1.000	1.000	1.000	2.000	1.667	1.000	1.667	10.000	1.250
2	38548 154	.667	1.000	1.000	.667	.667	1.333	1.333	1.333	1.000	6.333	1.042
3	38549 155	1.000	1.333	.667	1.000	1.000	.333	.333	.333	1.000	6.667	.833
4	38550 156	1.667	.667	1.333	1.333	1.000	1.667	1.000	1.000	.667	9.333	1.167
5	38551 157	.667	.667	.333	.667	.667	.667	1.000	1.000	.333	5.333	.667
6	38552 158	.333	1.000	.667	.667	1.667	2.000	.333	.333	.667	7.000	.875
7	38553 159	.333	.333	.333	.333	.333	1.000	.333	2.667	3.000	8.333	1.042
8	38554 160	2.667	2.333	3.000	2.667	1.667	1.667	1.000	1.667	1.333	16.333	2.042
9	38555 161	1.667	1.667	1.667	2.000	2.667	3.000	3.000	1.667	1.333	15.667	1.958
10	38556 162	2.667	6.667	6.333	5.667	5.000	3.000	3.000	3.333	4.000	36.667	4.583
11	38557 163	4.667	4.667	3.333	3.667	3.667	3.333	4.000	2.667	3.667	30.000	3.750
12	38558 164	3.000	2.667	2.333	3.000	3.000	3.000	3.000	2.000	2.667	21.367	2.708
13	38559 165	2.667	2.667	2.333	3.000	3.000	1.667	2.000	1.667	2.000	18.000	2.250
14	38560 166	1.333	2.333	2.333	1.667	1.667	1.667	1.000	1.667	2.333	14.333	1.792
15	38561 167	3.000	2.000	1.333	1.000	1.000	1.000	1.333	1.000	1.667	12.333	1.542
16	38562 168	1.667	1.000	.667	1.000	1.000	.333	1.000	1.000	1.000	7.667	.958
17	38563 169	.333	1.333	1.667	1.000	1.000	1.667	.667	.333	.333	7.333	.917
18	38564 170	.667	.333	.667	2.000	2.000	3.000	1.333	2.333	2.667	13.000	1.625
19	38565 171	.667	.333	.333	1.333	1.333	.667	1.000	1.667	2.667	8.667	1.083
20	38566 172	2.667	2.667	1.667	2.667	2.667	5.000	3.000	3.667	1.667	23.000	2.875
21	38567 173	4.000	1.667	2.667	3.333	3.333	1.000	1.667	3.000	.333	17.667	2.208
22	38568 174	.333	.667	.333	1.000	1.000	1.667	2.667	2.000	2.000	10.667	1.333
23	38569 175	1.667	1.333	1.333	1.667	1.667	2.000	1.333	1.333	2.333	13.000	1.625
24	38570 176	1.667	.667	.667	.333	.333	.667	1.000	3.000	2.000	10.000	1.250
25	38571 177	2.333	3.333	4.000	2.333	2.333	2.000	1.000	1.333	1.000	17.333	2.167
26	38572 178	1.000	1.667	2.000	1.667	1.667	1.667	1.333	.667	1.333	11.333	1.417
27	38573 179	.333	.333	1.000	1.000	1.000	2.333	2.000	1.667	2.000	10.667	1.333
28	38574 180	.667	1.333	1.333	2.333	2.333	3.333	3.667	3.333	1.333	17.333	2.167
29	38575 181	1.333	1.333	1.667	2.667	2.667	1.333	2.333	1.333	.000	12.000	1.500
30	38576 182	.667	1.667	.333	.667	.667	.667	.333	1.000	1.000	6.333	.792

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY YEAR	AP	AP	AP	AP	AP	AP	AP	AP	MAGNETIC CHARACTER
1	38547 153	2	5	4	4	7	6	4	6	.3
2	38549 154	3	4	4	3	5	5	5	4	.2
3	38549 155	4	5	3	4	4	2	2	4	.2
4	38550 156	6	3	5	5	4	6	4	3	.2
5	38551 157	3	3	2	3	3	4	4	2	.1
6	38552 158	2	4	3	6	7	2	2	3	.1
7	38553 159	2	2	2	2	4	2	12	15	.3
8	38554 160	12	9	15	12	6	4	6	5	.5
9	38555 161	6	6	6	7	12	15	6	5	.6
10	38556 162	12	11	94	67	48	15	18	27	1.5
11	38557 163	39	39	18	22	19	27	12	22	1.2
12	38558 164	15	12	9	15	15	15	7	12	.8
13	38559 165	12	12	9	15	6	7	6	7	.7
14	38560 166	5	9	9	6	6	4	6	9	.4
15	38561 167	15	7	5	4	4	5	4	6	.3
16	38562 168	6	4	3	4	2	4	4	4	.1
17	38563 169	2	5	6	4	6	3	2	2	.1
18	38564 170	3	2	3	7	15	5	9	12	.5
19	38565 171	3	2	2	5	3	4	6	12	.3
20	38566 172	12	12	6	12	48	15	22	6	.9
21	38567 173	27	6	12	18	4	6	15	2	.8
22	38568 174	2	3	2	4	6	12	7	7	.4
23	38569 175	6	5	5	6	7	5	5	9	.4
24	38570 176	6	3	3	2	3	4	15	7	.3
25	38571 177	9	18	27	9	7	4	5	4	.6
26	38572 178	4	6	7	6	6	5	3	5	.4
27	38573 179	2	2	4	4	9	7	6	7	.3
28	38574 180	3	3	5	9	18	22	18	5	.7
29	38575 181	5	5	6	12	5	9	5	0	.4
30	38576 182	3	6	2	3	3	2	4	4	.1

JUNE 1964

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	---SOLAR FLUX(10.7CM OTTAWA)---				---RELATIVE ZURICH SUNSPOT NUMBER---				
		1-----RUNNING HEADS-----1		1-----RUNNING MEANS-----1		1-----RUNNING HEADS-----1		1-----RUNNING MEANS-----1		
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	38547 153	67.0	68.9	69.7	71.8	1	8	10.0	9.0	11.6
2	38548 154	68.0	68.8	69.6	71.6	1	8	9.9	9.0	11.2
3	38549 155	68.3	68.7	69.5	71.5	1	8	9.8	8.9	10.9
4	38550 156	68.0	68.6	69.4	71.4	1	8	9.7	8.9	10.6
5	38551 157	67.0	68.5	69.3	71.2	1	0	9.4	8.8	10.3
6	38552 158	68.0	68.4	69.2	71.1	1	0	9.2	8.7	10.0
7	38553 159	69.0	68.4	69.1	71.1	1	14	9.4	8.8	10.1
8	38554 160	69.0	68.0	69.1	71.0	1	0	9.4	8.7	10.0
9	38555 161	69.0	68.1	69.1	70.9	1	7	9.7	8.7	10.0
10	38556 162	70.0	68.1	69.1	70.9	1	7	9.6	8.6	9.8
11	38557 163	70.0	68.2	69.1	70.8	1	14	9.5	8.7	9.6
12	38558 164	68.0	68.1	69.0	70.7	1	22	9.7	9.1	9.5
13	38559 165	70.0	68.2	69.0	70.6	1	12	9.3	9.2	9.3
14	38560 166	70.0	68.2	69.0	70.5	1	18	9.6	9.1	9.2
15	38561 167	71.0	68.3	69.0	70.5	1	24	10.1	9.3	9.3
16	38562 168	70.0	68.4	69.0	70.4	1	23	10.7	9.4	9.4
17	38563 169	71.0	68.5	69.0	70.4	1	13	10.9	9.2	9.3
18	38564 170	71.0	68.7	69.0	70.3	1	22	11.1	9.4	9.5
19	38565 171	70.0	68.8	69.0	70.2	1	24	11.5	9.7	9.7
20	38566 172	70.0	68.9	69.1	70.2	1	19	11.8	10.1	9.9
21	38567 173	69.0	68.9	69.1	70.1	1	9	11.7	10.2	9.9
22	38568 174	69.0	69.0	69.1	70.0	1	0	11.2	10.2	9.9
23	38569 175	67.0	69.0	69.0	69.9	1	0	10.9	10.2	9.7
24	38570 176	68.0	68.9	69.0	69.8	1	0	10.6	10.1	9.7
25	38571 177	67.0	68.9	69.0	69.7	1	0	10.3	10.1	9.6
26	38572 178	67.0	68.8	69.0	69.6	1	0	10.0	10.1	9.5
27	38573 179	67.0	68.8	68.9	69.5	1	0	9.6	9.9	9.3
28	38574 180	67.0	68.8	68.9	69.4	1	0	9.3	9.7	9.1
29	38575 181	67.0	68.8	68.8	69.3	1	7	9.3	9.6	9.1
30	38576 182	67.0	68.7	68.7	69.2	1	7	9.3	9.5	9.0

MONTHLY AVERAGE 68.6  
MONTHLY SMOOTHED 72.1

9.1  
10.2



JULY 1964

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38577 183	1.667	1.000	.667	1.000	.667	1.000	.667	.333	7.000	.875
2	38578 184	.333	.333	.000	.333	1.000	1.333	.667	2.000	6.000	.750
3	38579 185	2.667	3.000	3.667	3.000	3.333	2.667	3.000	4.333	25.667	3.208
4	38580 186	2.667	2.667	3.000	2.333	1.667	1.000	1.333	1.333	16.000	2.000
5	38581 187	1.333	1.000	.667	1.667	.667	1.000	1.333	2.333	10.000	1.250
6	38582 188	1.667	1.000	1.333	1.333	1.667	1.000	1.000	1.667	10.667	1.333
7	38583 189	1.667	3.000	2.333	2.000	3.667	3.000	4.000	4.667	24.333	3.042
8	38584 190	4.000	4.333	3.000	3.000	4.000	2.000	3.667	3.667	27.667	3.458
9	38585 191	4.000	3.000	2.667	1.667	2.000	2.667	3.333	4.333	23.667	2.958
10	38586 192	3.333	3.333	3.667	3.000	2.667	2.333	1.333	1.000	20.667	2.583
11	38587 193	2.667	.667	.667	1.333	2.000	1.667	2.333	1.000	12.333	1.542
12	38588 194	1.000	1.333	1.667	1.667	1.333	1.000	2.000	2.000	12.000	1.500
13	38589 195	2.000	1.333	1.333	2.667	2.333	1.000	1.333	1.000	13.000	1.625
14	38590 196	.333	1.667	1.333	.667	.333	.667	.667	.333	6.000	.750
15	38591 197	.667	.333	.667	.333	.000	.333	.333	.000	2.667	.333
16	38592 198	1.000	1.667	.667	1.333	1.667	2.333	2.667	2.667	14.000	1.750
17	38593 199	3.000	1.333	1.667	2.333	4.333	5.667	4.333	2.333	25.000	3.125
18	38594 200	5.000	4.667	3.000	4.333	3.333	3.333	2.333	3.000	29.000	3.625
19	38595 201	2.667	3.000	3.000	3.667	1.333	1.333	2.667	4.000	21.667	2.708
20	38596 202	3.667	2.333	2.333	3.000	2.000	1.000	2.000	.667	17.000	2.125
21	38597 203	1.667	1.000	.667	1.333	1.333	1.333	2.667	2.667	12.667	1.583
22	38598 204	2.000	2.000	3.000	2.333	2.333	2.000	2.667	2.333	18.667	2.333
23	38599 205	2.000	.667	2.000	1.667	1.000	1.000	2.000	.667	11.000	1.375
24	38600 206	.667	.667	.333	1.667	1.000	.333	.667	1.333	6.667	.833
25	38601 207	1.333	1.000	1.000	1.667	1.667	1.333	1.333	1.667	11.000	1.375
26	38602 208	1.333	1.000	1.333	1.000	1.333	1.000	.667	.667	8.333	1.042
27	38603 209	.333	.333	.333	.667	.667	.333	.333	.667	3.667	.458
28	38604 210	1.333	.333	.000	.333	.667	.333	.333	1.000	4.333	.542
29	38605 211	1.000	1.000	2.333	4.000	3.333	3.667	4.667	2.333	22.333	2.792
30	38606 212	3.000	3.000	3.000	2.667	3.333	2.333	2.667	2.667	22.667	2.833
31	38607 213	2.333	1.667	2.667	2.000	1.667	1.667	2.000	1.667	15.667	1.958

JULY 1964

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	38577	183	6	4	3	4	3	4	3	2	2	3.625			.2
2	38578	184	2	2	2	2	4	5	3	7	7	3.125			.2
3	38579	185	12	15	22	15	18	12	15	32	32	17.625			1.0
4	38580	186	12	12	15	9	6	4	5	5	5	8.500			.4
5	38581	187	5	4	3	6	3	4	5	9	9	4.875			.2
6	38582	188	6	4	3	5	6	4	4	6	6	5.000			.2
7	38583	189	6	15	9	7	22	15	27	39	39	17.500			1.2
8	38584	190	27	32	15	15	27	7	22	22	22	20.875			1.2
9	38585	191	27	15	12	6	7	12	18	32	32	16.125			.9
10	38586	192	16	18	22	15	12	9	5	4	4	12.875			.8
11	38587	193	12	3	3	5	7	6	9	4	4	6.125			.4
12	38588	194	4	5	5	6	5	4	7	7	7	5.500			.3
13	38589	195	7	5	5	12	9	4	5	4	4	6.375			.4
14	38590	196	2	6	5	3	2	3	3	2	2	3.250			.1
15	38591	197	3	2	3	2	0	2	2	0	0	1.750			.0
16	38592	198	4	6	3	5	6	9	12	12	12	7.125			.4
17	38593	199	15	5	6	9	32	67	32	9	9	21.875			1.1
18	38594	200	48	39	15	32	18	18	9	15	15	24.250			1.2
19	38595	201	12	15	15	22	5	5	12	27	27	14.125			.9
20	38596	202	22	9	9	15	7	4	7	3	3	9.500			.7
21	38597	203	6	4	3	5	5	5	12	12	12	6.500			.4
22	38598	204	7	7	15	9	9	7	12	9	9	9.375			.7
23	38599	205	7	3	7	6	4	4	7	3	3	5.125			.3
24	38600	206	3	3	7	6	4	2	3	5	5	3.500			.1
25	38601	207	5	4	4	6	6	5	5	6	6	5.125			.3
26	38602	208	5	4	5	4	5	4	3	3	3	4.125			.2
27	38603	209	2	2	2	3	3	2	2	3	3	2.375			.1
28	38604	210	5	2	3	2	3	2	2	4	4	2.500			.1
29	38605	211	4	4	9	27	18	22	39	9	9	16.500			1.0
30	38606	212	15	15	15	12	13	9	12	12	12	13.500			1.0
31	38607	213	9	6	12	7	6	6	7	6	6	7.375			.6

JULY 1964

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)	1---RELATIVE ZURICH SUNSPOT NUMBER	1---RUNNING MEANS	1---RUNNING MEANS	1---RELATIVE ZURICH SUNSPOT NUMBER	1---RUNNING MEANS	1---RELATIVE ZURICH SUNSPOT NUMBER	1---RUNNING MEANS
		DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY
		54-DAY	81-DAY	1	7	9.2	9.5	9.0	9.0
1	38577 183	67.0	68.7	69.1	1	7	9.2	9.5	9.0
2	38578 184	67.0	68.7	69.1	1	0	9.2	9.3	9.0
3	38579 185	67.0	68.7	69.0	1	0	9.2	9.2	8.9
4	38580 186	68.0	68.6	69.0	1	8	9.0	9.2	8.9
5	38581 187	67.0	68.6	69.0	1	10	9.4	9.4	8.9
6	38582 188	67.0	68.5	68.9	1	8	9.4	9.6	8.9
7	38583 189	67.0	68.4	68.3	1	7	9.4	9.5	8.9
8	38584 190	67.0	68.3	68.2	1	0	8.9	9.2	8.8
9	38585 191	67.0	68.2	68.2	1	0	8.1	8.9	8.8
10	38586 192	66.0	68.1	68.1	1	0	7.6	8.5	8.7
11	38587 193	67.0	68.0	68.1	1	0	7.0	8.3	8.4
12	38588 194	66.0	67.8	68.0	1	0	6.1	8.1	8.2
13	38589 195	66.0	67.6	68.0	1	0	5.2	8.0	8.0
14	38590 196	69.0	67.6	68.0	1	10	5.1	8.0	7.9
15	38591 197	69.0	67.5	68.1	1	12	4.7	7.9	7.9
16	38592 198	69.0	67.4	68.1	1	11	4.3	7.9	7.9
17	38593 199	66.0	67.4	68.1	1	9	3.9	7.8	8.0
18	38594 200	66.0	67.3	68.1	1	8	3.9	7.8	8.1
19	38595 201	67.0	67.3	68.1	1	0	3.9	7.5	8.1
20	38596 202	66.0	67.2	68.1	1	0	3.9	7.4	8.1
21	38597 203	66.0	67.1	68.0	1	0	3.9	7.2	8.0
22	38598 204	66.0	67.1	68.0	1	0	3.9	7.1	8.0
23	38599 205	66.0	67.1	67.9	1	0	3.9	6.9	8.0
24	38600 206	66.0	67.0	67.9	1	0	3.9	6.7	7.9
25	38601 207	65.0	67.0	67.9	1	0	3.9	6.6	7.7
26	38602 208	64.0	66.9	67.0	1	0	3.6	6.4	7.6
27	38603 209	65.0	66.8	67.8	1	0	3.3	6.3	7.5
28	38604 210	65.0	66.7	67.7	1	0	3.1	6.1	7.3
29	38605 211	65.0	66.6	67.7	1	0	3.1	6.1	7.2
30	38606 212	66.0	66.6	67.6	1	0	3.1	6.1	7.2
31	38607 213	66.0	66.5	67.6	1	7	3.0	6.0	7.2

MONTHLY AVERAGE 66.6  
MONTHLY SMOOTHED 72.33.1  
10.3

# GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

349

AUGUST 1964

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP								MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	
1	38608	214	15	7	4	3	5	4	4	5	5.875
2	38609	215	2	3	3	2	2	3	5	9	3.625
3	38610	216	6	4	4	3	5	6	4	6	4.750
4	38611	217	39	94	56	22	18	18	9	15	33.875
5	38612	218	7	9	6	18	22	22	27	18	16.125
6	38613	219	15	18	5	4	2	2	2	6	6.750
7	38614	220	22	15	12	15	18	7	6	6	12.625
8	38615	221	6	4	4	2	2	3	5	7	4.125
9	38616	222	6	12	3	5	12	7	15	6	8.250
10	38617	223	4	3	6	3	2	2	3	3	3.250
11	38618	224	22	27	18	12	32	32	39	32	26.750
12	38619	225	22	7	22	15	12	7	15	9	13.875
13	38620	226	12	7	6	5	5	4	7	7	6.625
14	38621	227	4	3	2	6	3	4	6	6	4.250
15	38622	228	5	4	0	2	0	2	4	5	2.750
16	38623	229	7	6	6	4	4	7	5	9	6.000
17	38624	230	15	6	3	3	4	6	4	2	5.375
18	38625	231	6	7	7	6	6	5	7	5	6.125
19	38626	232	0	2	6	7	7	5	4	7	4.750
20	38627	233	5	3	2	2	3	4	7	7	4.125
21	38628	234	2	5	4	4	5	6	4	3	4.125
22	38629	235	12	7	6	9	7	4	5	4	6.750
23	38630	236	6	3	3	5	4	5	3	2	3.875
24	38631	237	2	2	4	2	4	4	5	5	3.250
25	38632	238	4	6	4	2	9	15	15	12	8.375
26	38633	239	18	12	12	4	9	4	5	18	10.250
27	38634	240	9	12	7	7	9	7	6	4	7.625
28	38635	241	3	2	2	2	2	2	6	3	2.750
29	38636	242	6	2	3	7	3	5	5	6	4.625
30	38637	243	3	3	3	4	3	4	3	4	3.375
31	38638	244	7	7	6	9	15	6	12	39	12.625

AUGUST 1964

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOJ. DAY JULIAN OF DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEAN S---	1---RUNNING MEAN S---	1---RUNNING MEAN S---
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY
1	38608 214	66.0	67.5	67.7	9	3.0
2	38609 215	66.5	67.5	67.7	20	6.2
3	38610 216	66.5	67.5	67.7	17	6.4
4	38611 217	66.5	67.4	67.7	9	6.5
5	38612 218	66.6	67.4	67.7	8	7.4
6	38613 219	66.7	67.4	67.6	7	7.2
7	38614 220	66.7	67.3	67.6	7	7.2
8	38615 221	66.7	67.2	67.6	0	5.5
9	38616 222	66.7	67.2	67.6	0	5.1
10	38617 223	66.7	67.1	67.6	7	5.0
11	38618 224	66.7	67.1	67.6	8	4.7
12	38619 225	66.7	67.1	67.6	21	5.1
13	38620 226	66.9	67.1	67.7	23	5.6
14	38621 227	67.2	67.3	67.8	36	5.2
15	38622 228	67.5	67.4	67.9	30	7.7
16	38623 229	67.7	67.5	68.0	30	8.4
17	38624 230	67.9	67.5	68.0	19	9.6
18	38625 231	68.0	67.6	68.0	9	6.7
19	38626 232	68.2	67.6	68.0	8	10.2
20	38627 233	68.3	67.7	68.0	7	10.4
21	38628 234	68.4	67.7	68.1	7	10.7
22	38629 235	68.6	67.7	68.1	0	10.7
23	38630 236	68.7	67.8	68.1	0	10.7
24	38631 237	68.9	67.8	68.1	0	10.7
25	38632 238	68.9	67.8	68.1	0	10.7
26	38633 239	69.0	67.8	68.1	0	10.7
27	38634 240	69.0	67.8	68.1	0	10.7
28	38635 241	69.1	67.8	68.0	0	10.4
29	38636 242	69.1	67.8	68.0	0	10.1
30	38637 243	69.1	67.8	68.0	0	9.4
31	38638 244	69.1	67.8	68.0	7	8.7

MONTHLY AVERAGE 68.3  
MONTHLY SMOOTHED 72.3

9.3  
10.2

SEPTEMBER 1964

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	38639 245	4.667	4.333	4.000	1.333	2.667	3.333	2.000	3.667	26.000	3.250
2	38640 246	3.667	2.333	2.333	2.667	1.333	1.333	2.333	2.000	18.000	2.250
3	38641 247	3.000	2.333	1.667	1.333	1.667	2.333	3.000	1.667	17.000	2.125
4	38642 248	1.000	2.000	2.000	3.000	2.000	1.000	2.667	3.000	16.667	2.083
5	38643 249	2.000	3.333	1.333	1.667	1.333	.333	.333	.667	11.000	1.375
6	38644 250	1.000	1.000	1.333	1.667	2.667	1.000	3.000	5.000	16.667	2.083
7	38645 251	3.000	2.333	3.333	4.667	4.333	4.000	5.000	4.667	31.333	3.917
8	38646 252	4.000	3.667	4.333	4.000	2.667	4.000	3.667	3.000	29.333	3.667
9	38647 253	3.000	4.000	2.333	3.333	3.000	2.667	3.000	3.333	24.667	3.083
10	38648 254	4.000	3.000	.667	.667	1.000	1.667	2.000	2.667	15.667	1.958
11	38649 255	2.333	2.333	1.333	.333	.333	.333	.333	1.000	8.333	1.042
12	38650 256	2.000	1.000	.667	.333	1.000	.000	.000	.000	5.000	.625
13	38651 257	1.000	.000	.333	.667	.000	.333	1.000	.667	4.000	.500
14	38652 258	.667	.000	.333	.333	.333	.333	.333	1.000	3.333	.417
15	38653 259	.333	.333	.667	.333	.000	.667	.667	1.667	4.667	.583
16	38654 260	1.000	2.333	1.333	2.000	3.667	3.333	3.667	3.333	20.667	2.583
17	38655 261	3.333	2.667	2.000	1.667	3.000	1.333	1.667	1.667	17.333	2.167
18	38656 262	1.667	1.667	1.000	1.333	1.333	1.000	1.000	1.667	10.667	1.333
19	38657 263	.333	.667	.667	.333	1.000	.333	.333	.667	4.333	.542
20	38658 264	.000	.000	.000	.333	.333	.333	.667	1.333	3.000	.375
21	38659 265	.333	.667	1.333	1.667	.667	1.000	1.333	2.333	9.333	1.167
22	38660 266	6.667	7.667	3.333	2.333	2.333	2.000	2.333	2.333	29.000	3.625
23	38661 267	2.000	2.000	3.667	2.667	.667	.333	1.333	2.000	14.667	1.833
24	38662 268	1.000	2.333	2.000	3.000	1.667	2.000	3.333	1.333	16.667	2.083
25	38663 269	2.333	2.667	1.000	.667	.000	.333	.333	1.667	9.000	1.125
26	38664 270	1.667	.333	2.000	1.333	.667	.000	.333	.667	7.000	.875
27	38665 271	.333	.333	1.333	.333	.333	1.000	1.333	4.000	9.000	1.125
28	38666 272	4.667	4.000	4.667	4.000	4.000	5.667	4.667	3.000	34.667	4.333
29	38667 273	1.667	2.333	2.333	1.333	1.333	.333	.667	3.000	13.000	1.625
30	38668 274	2.667	4.667	4.000	1.000	3.667	4.000	2.667	3.333	28.000	3.500

# GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH		MOD. DAY JULIAN OF DAY YEAR		AP												MAGNETIC CHARACTER	
		1	2	3	4	5	6	7	8	AP		AP					
1	38639 245	39	32	27	5	12	18	7	22	20.250			1.0				
2	38640 246	22	9	9	12	5	5	9	7	9.750			.6				
3	38641 247	15	9	6	5	6	6	15	6	8.875			.6				
4	38642 248	4	7	7	15	7	4	12	15	8.875			.6				
5	38643 249	7	18	5	6	5	2	2	3	6.000			.3				
6	38644 250	4	4	5	6	12	4	15	48	12.250			.8				
7	38645 251	15	9	18	39	32	27	48	39	28.375			1.4				
8	38646 252	27	22	32	27	12	27	22	15	23.000			1.2				
9	38647 253	15	27	9	18	15	12	15	18	16.125			.9				
10	38648 254	27	15	3	3	4	6	7	12	9.625			.6				
11	38649 255	9	9	5	2	2	2	2	4	4.375			.1				
12	38650 256	7	4	3	2	4	0	0	0	2.500			.1				
13	38651 257	4	0	2	3	0	2	4	3	2.250			.1				
14	38652 258	3	0	2	2	2	2	2	4	2.125			.1				
15	38653 259	2	2	3	2	0	3	3	6	2.625			.0				
16	38654 260	4	9	5	7	22	18	22	18	13.125			.9				
17	38655 261	18	12	7	6	15	5	6	6	9.375			.5				
18	38656 262	6	6	4	5	5	4	4	6	5.000			.2				
19	38657 263	2	3	3	2	4	2	2	3	2.625			.0				
20	38658 264	0	0	0	2	2	2	3	5	1.750			.1				
21	38659 265	2	3	5	6	3	4	5	9	4.625			.3				
22	38660 266	111	179	18	9	9	7	9	9	43.875			1.4				
23	38661 267	7	7	22	12	3	2	5	7	8.125			.4				
24	38662 268	4	9	7	15	6	7	18	5	8.875			.8				
25	38663 269	9	12	4	3	0	2	2	6	4.750			.1				
26	38664 270	6	2	7	5	3	0	2	3	3.500			.1				
27	38665 271	2	2	5	2	2	4	5	27	6.125			.4				
28	38666 272	39	77	30	27	27	67	39	15	35.000			1.4				
29	38667 273	6	9	9	5	5	2	3	15	6.750			.4				
30	38668 274	12	39	27	15	22	27	12	18	21.500			.0				



SEPTEMBER 1964

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOJ. DAY JULIAN DAY YEAR	1---SOLAR FLUX(10.7CM OTTAWA)-----	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS-----	1---RUNNING MEANS-----	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS-----
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	38639 245	70.0	69.1	67.9	68.0	7	8.6
2	38640 246	69.3	69.2	67.9	68.0	8	8.7
3	38641 247	69.0	69.3	68.0	68.0	8	8.7
4	38642 248	69.0	69.3	68.0	67.9	0	8.7
5	38643 249	69.0	69.4	68.1	67.9	0	8.7
6	38644 250	70.0	69.5	68.1	67.9	0	8.4
7	38645 251	70.0	69.6	68.1	67.9	7	8.4
8	38646 252	70.0	69.6	68.1	67.9	20	8.4
9	38647 253	71.0	69.5	68.2	67.9	12	8.0
10	38648 254	71.0	69.3	68.2	67.9	11	7.0
11	38649 255	72.0	69.2	68.3	68.0	11	6.3
12	38650 256	72.0	69.1	68.4	68.0	20	6.0
13	38651 257	72.0	69.2	68.6	68.1	18	5.9
14	38652 258	71.0	69.3	68.6	68.1	11	6.0
15	38653 259	71.0	69.3	68.7	68.2	0	5.7
16	38654 260	69.0	69.3	68.8	68.2	0	5.4
17	38655 261	68.0	69.3	68.9	68.2	0	5.2
18	38656 262	68.0	69.2	68.9	68.2	0	5.2
19	38657 263	69.0	69.3	69.0	68.3	0	5.2
20	38658 264	69.0	69.3	69.1	68.3	0	5.2
21	38659 265	68.0	69.3	69.1	68.3	0	5.2
22	38660 266	68.0	69.4	69.2	68.3	0	5.2
23	38661 267	68.0	69.4	69.2	68.3	0	5.2
24	38662 268	68.0	69.4	69.2	68.3	0	5.2
25	38663 269	68.0	69.4	69.3	68.3	0	5.2
26	38664 270	69.0	69.5	69.3	68.4	0	5.2
27	38665 271	69.0	69.5	69.3	68.4	0	4.9
28	38666 272	70.0	69.5	69.3	68.4	0	4.7
29	38667 273	70.0	69.6	69.4	68.5	0	4.4
30	38668 274	71.0	69.6	69.4	68.5	7	4.3

MONTHLY AVERAGE 69.6  
MONTHLY SMOOTHED 72.2

4.7  
9.9

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

355

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP								MAGNETIC CHARACTER							
			1	2	3	4	5	6	7	8	AP	AP	AP	AP	AP	AP		
1	38669	275	22	10	9	6	6	9	2	3	9.375	.6						
2	38670	276	12	3	2	0	3	4	6	3	4.125	.3						
3	38671	277	6	2	4	5	15	22	15	12	10.125	.7						
4	38672	278	22	39	15	22	9	48	48	39	30.250	1.4						
5	38673	279	32	10	15	12	22	18	22	18	19.625	1.1						
6	38674	280	15	4	9	6	15	22	15	15	12.625	.8						
7	38675	281	27	22	12	7	5	5	9	18	13.125	.8						
8	38676	282	9	15	15	7	15	22	22	12	14.625	1.0						
9	38677	283	15	18	32	15	9	5	9	6	13.625	.8						
10	38678	284	7	0	2	4	5	5	3	2	3.500	.1						
11	38679	285	0	0	2	2	5	5	5	5	3.000	.2						
12	38680	286	6	3	12	32	27	18	9	12	14.875	.9						
13	38681	287	9	12	7	5	7	5	6	7	7.250	.4						
14	38682	288	18	18	7	6	4	0	2	3	7.250	.3						
15	38683	289	9	4	4	7	4	6	5	6	6.250	.4						
16	38684	290	6	9	3	0	0	2	4	4	3.500	.1						
17	38685	291	5	15	9	5	6	6	2	4	6.500	.3						
18	38686	292	5	12	7	7	12	9	15	27	11.750	.6						
19	38687	293	22	27	18	15	39	39	22	22	25.500	1.4						
20	38688	294	27	9	5	9	9	7	18	15	12.375	.9						
21	38689	295	15	12	15	15	9	18	27	9	15.000	.9						
22	38690	296	6	6	6	5	2	0	2	0	3.375	.0						
23	38691	297	0	0	0	0	2	0	2	2	.750	.0						
24	38692	298	0	2	2	3	2	7	6	15	4.625	.3						
25	38693	299	12	5	3	3	3	2	2	5	4.375	.2						
26	38694	300	12	12	56	39	9	5	9	5	10.375	1.1						
27	38695	301	6	6	5	7	9	5	6	3	5.875	.4						
28	38696	302	7	4	3	4	5	3	7	5	4.750	.3						
29	38697	303	9	10	6	3	3	5	5	5	6.750	.3						
30	38698	304	6	4	3	1	3	2	2	2	3.250	.0						
31	38699	305	4	0	0	2	0	2	2	4	1.750	.0						

OCTOBER 1964

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1			
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	38669 275	72.0	69.7	69.5	68.6	17	5.0	6.8	6.2
2	38670 276	71.0	69.8	69.6	68.7	12	5.4	7.1	6.4
3	38671 277	72.0	69.9	69.7	68.7	0	5.4	6.9	6.2
4	38672 278	71.0	69.9	69.7	68.7	0	5.1	6.8	6.1
5	38673 279	71.0	70.0	69.8	68.7	0	4.4	6.4	6.0
6	38674 280	73.0	70.0	69.8	68.8	14	4.5	6.2	6.0
7	38675 281	74.0	70.1	69.7	68.9	20	4.8	5.9	6.2
8	38676 282	77.0	70.3	69.8	69.0	16	5.0	5.7	6.4
9	38677 283	73.0	70.4	69.8	69.1	11	4.7	5.3	6.5
10	38678 284	73.0	70.4	69.8	69.2	0	4.0	5.0	6.5
11	38679 285	72.0	70.4	69.9	69.2	0	3.6	4.3	6.5
12	38680 286	70.0	70.4	69.9	69.3	0	3.6	4.3	6.5
13	38681 287	72.0	70.5	69.9	69.4	0	3.6	4.5	6.5
14	38682 288	71.0	70.6	69.9	69.4	0	3.6	4.4	6.5
15	38683 289	71.0	70.7	70.0	69.5	0	3.6	4.4	6.5
16	38684 290	71.0	70.8	70.0	69.6	0	3.6	4.4	6.5
17	38685 291	71.0	70.9	70.1	69.7	0	3.6	4.4	6.5
18	38686 292	72.0	71.0	70.2	69.8	12	4.0	4.6	6.6
19	38687 293	73.0	71.2	70.3	69.9	11	4.4	4.8	6.8
20	38688 294	73.0	71.4	70.4	69.9	10	4.8	5.0	6.8
21	38689 295	71.0	71.5	70.5	70.0	0	4.8	5.0	6.7
22	38690 296	73.0	71.7	70.6	70.1	0	4.8	5.0	6.5
23	38691 297	73.0	71.9	70.7	70.1	0	4.8	5.0	6.2
24	38692 298	74.0	72.0	70.8	70.2	7	5.1	5.0	6.2
25	38693 299	76.0	72.3	70.9	70.3	8	5.4	5.0	6.2
26	38694 300	77.0	72.5	71.0	70.4	7	5.6	5.0	6.2
27	38695 301	76.0	72.7	71.2	70.5	9	5.7	5.0	6.2
28	38696 302	75.0	72.8	71.3	70.6	0	5.1	5.0	6.2
29	38697 303	74.0	72.9	71.4	70.7	9	5.0	5.2	6.4
30	38698 304	74.0	73.0	71.4	70.8	16	5.6	5.5	6.5
31	38699 305	75.0	73.1	71.5	70.9	9	5.9	5.5	6.5

MONTHLY AVERAGE 72.9  
MONTHLY SMOOTHED 72.1

6.1  
9.6

# GEOMAGNETIC PLANETARY INDICES

# QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY		MOD. DAY		KP										SUM		AVG.	
OF	JULIAN	OF	JULIAN	1	2	3	4	5	6	7	8	KP	KP	KP	KP		
MONTH	DAY	YEAR	DAY	YEAR	1	2	3	4	5	6	7	8	KP	KP	KP		
1	38700	306			.667	2.667	1.333	1.333	2.667	3.667	3.333	4.667	20.333	2.542			
2	38701	307			4.000	4.000	3.333	2.000	.667	1.333	1.000	2.667	19.000	2.375			
3	38702	308			3.000	2.000	1.333	.333	.000	1.000	.333	.000	8.000	1.000			
4	38703	309			1.000	2.667	.333	1.667	2.667	1.667	1.000	2.667	13.667	1.708			
5	36704	310			2.667	1.667	.667	.667	3.000	2.333	3.333	2.000	16.333	2.042			
6	38705	311			1.000	1.000	1.000	1.000	1.333	1.000	1.667	1.000	9.000	1.125			
7	36706	312			1.000	.000	.000	.000	.000	.000	.000	.667	1.667	.208			
8	38707	313			2.333	2.333	2.333	1.000	2.000	.667	3.000	2.667	16.333	2.042			
9	38708	314			4.000	4.667	2.667	2.667	1.667	3.333	3.000	3.667	25.667	3.208			
10	38709	315			4.333	3.000	2.667	1.667	1.667	.667	1.667	1.333	17.000	2.125			
11	38710	316			.667	1.667	2.667	2.000	.667	.667	1.000	1.333	10.667	1.333			
12	38711	317			2.333	3.333	1.667	.667	1.667	2.000	2.333	2.333	16.333	2.042			
13	38712	318			1.000	1.667	1.667	1.333	1.333	1.667	.333	.000	9.000	1.125			
14	38713	319			.000	.000	.333	.000	.000	.333	.333	.000	1.000	.125			
15	38714	320			.000	.333	.667	2.000	3.667	3.333	3.000	4.333	17.333	2.167			
16	36715	321			2.667	2.333	3.000	2.333	1.333	2.000	2.000	2.667	18.333	2.292			
17	38716	322			2.333	1.333	1.667	.667	1.000	1.667	1.333	.667	10.667	1.333			
18	38717	323			2.000	.333	1.667	.667	.000	1.667	1.333	2.333	10.000	1.250			
19	38718	324			1.667	1.000	.667	.667	.333	.000	.333	.333	4.333	.542			
20	38719	325			1.333	1.333	.000	1.667	.333	.333	.000	.667	5.667	.708			
21	38720	326			.333	.333	.667	.333	.667	.333	.667	1.667	5.000	.625			
22	38721	327			1.667	1.000	1.000	2.333	1.000	1.333	1.333	2.667	12.333	1.542			
23	38722	328			3.000	3.667	3.667	4.667	4.333	3.333	2.333	1.000	24.000	3.250			
24	36723	329			1.333	.667	1.000	1.000	.333	.000	.000	.333	4.667	.583			
25	38724	330			.000	.000	.000	.000	.333	.667	1.667	.667	3.333	.417			
26	38725	331			1.000	3.333	1.000	3.000	3.333	3.000	1.667	2.000	18.333	2.292			
27	38726	332			1.000	1.333	.667	.000	.333	.333	2.000	2.333	8.000	1.000			
28	36727	333			3.000	2.333	2.000	2.000	2.000	3.333	3.000	1.333	19.000	2.375			
29	38728	334			.000	.000	.000	.333	.000	1.000	1.000	3.667	6.000	.750			
30	38729	335			4.333	3.333	2.667	1.667	.667	.667	.667	2.333	16.333	2.042			

# GEOMAGNETIC PLANETARY INDICES

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
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NOVEMBER 1964

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY
						81-DAY
1	38700 306	75.0	73.3	71.6	71.0	9
2	38701 307	75.0	73.4	71.7	71.0	8
3	38702 308	74.0	73.4	71.8	70.9	8
4	38703 309	74.0	73.3	71.8	70.9	0
5	38704 310	73.0	73.3	71.8	70.9	0
6	38705 311	74.0	73.3	71.9	71.0	7
7	38706 312	73.0	73.3	71.9	71.0	7
8	38707 313	73.0	73.4	71.9	71.0	7
9	38708 314	72.0	73.4	72.0	71.1	0
10	38709 315	72.0	73.5	72.1	71.1	0
11	38710 316	72.0	73.5	72.1	71.2	0
12	38711 317	72.0	73.6	72.2	71.2	9
13	38712 318	72.0	73.6	72.2	71.3	7
14	38713 319	73.0	73.6	72.3	71.3	17
15	38714 320	73.0	73.6	72.4	71.4	8
16	38715 321	72.0	73.6	72.5	71.5	16
17	38716 322	76.0	73.8	72.6	71.6	15
18	38717 323	75.0	73.9	72.8	71.7	19
19	38718 324	75.0	73.9	72.9	71.8	12
20	38719 325	76.0	74.0	73.0	71.9	19
21	38720 326	74.0	73.9	73.1	71.9	21
22	38721 327	74.0	73.8	73.2	72.0	8
23	38722 328	72.0	73.7	73.2	72.0	0
24	38723 329	72.0	73.6	73.2	72.0	8
25	38724 330	72.0	73.5	73.2	72.1	9
26	38725 331	70.0	73.3	73.2	72.1	0
27	38726 332	72.0	73.2	73.2	72.1	0
28	38727 333	71.0	73.1	73.2	72.1	7
29	38728 334	74.0	73.0	73.2	72.1	0
30	38729 335	74.0	73.0	73.2	72.2	0

MONTHLY AVERAGE 73.2  
MONTHLY SMOOTHED 72.5

7.4  
10.2

DECEMBER 1964

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG, KP
1	38730 330	2.667	2.000	2.333	2.667	2.333	2.333	2.333	1.333	1.333	17.000	2.125
2	38731 337	1.000	.667	1.333	.667	.667	.000	.000	.667	1.333	5.667	.708
3	38732 338	.000	1.000	.667	1.333	1.667	1.333	1.333	2.667	1.000	9.667	1.208
4	38733 339	.667	.667	.000	.667	1.000	1.000	2.000	1.667	.667	7.333	.917
5	38734 340	1.000	.667	.000	.667	.667	.000	.000	.333	.667	3.333	.417
6	38735 341	.000	.000	.333	.333	.000	.333	.333	2.333	2.000	5.333	.667
7	38736 342	.667	1.000	.667	2.667	2.667	3.000	3.333	2.333	3.333	17.000	2.125
8	38737 343	2.667	3.000	1.667	.667	.667	1.000	.667	1.333	.667	11.667	1.458
9	38738 344	.333	1.667	1.667	1.333	1.333	.667	.667	.667	2.667	9.667	1.208
10	38739 345	1.333	1.333	1.333	.333	.333	.333	.000	.667	.000	5.333	.667
11	38740 346	.000	.333	.667	.667	.667	.667	.333	1.000	1.333	5.000	.625
12	38741 347	.000	.333	.667	.333	.333	.667	.000	.667	.667	3.333	.417
13	38742 348	.667	1.333	.667	1.333	1.333	2.000	3.667	3.333	1.667	14.667	1.833
14	38743 349	2.000	1.000	2.000	2.333	2.333	1.333	2.000	2.000	2.000	14.667	1.833
15	38744 350	3.000	3.333	2.000	2.000	1.000	1.667	1.000	1.000	.333	13.333	1.667
16	38745 351	2.667	2.333	2.000	2.667	2.667	5.333	2.000	1.667	2.667	21.333	2.667
17	38746 352	4.667	3.667	3.000	3.000	3.000	1.333	1.667	2.000	2.333	21.667	2.708
18	38747 353	2.667	1.667	1.667	1.667	1.000	1.000	.333	1.000	1.667	11.000	1.375
19	38748 354	1.667	2.000	1.333	1.333	1.333	2.000	3.000	3.333	2.000	16.667	2.083
20	38749 355	.333	.000	.000	.000	2.000	.667	.667	2.000	2.000	7.667	.956
21	38750 356	1.000	.333	1.667	1.000	1.000	1.000	2.000	.667	.333	8.000	1.000
22	38751 357	1.333	1.000	.333	.333	.333	.667	1.000	.333	1.000	6.000	.750
23	38752 358	.667	2.000	2.000	.667	.667	1.000	.667	.333	1.333	8.667	1.083
24	38753 359	.000	.333	1.000	.000	.000	.333	1.333	1.333	1.333	5.667	.708
25	38754 360	.000	.000	.000	.333	.667	1.333	1.333	1.667	3.000	8.333	1.042
26	38755 361	3.333	.667	.000	.000	.333	1.333	.667	.667	.667	7.667	.958
27	38756 362	.667	.000	.000	.000	.667	.333	.333	.667	1.333	4.000	.500
28	38757 363	1.333	.667	.000	.000	.000	.000	.333	2.000	1.667	6.000	.750
29	38758 364	1.333	.667	2.667	1.000	1.000	1.000	1.000	.333	.000	8.000	1.000
30	38759 365	1.333	.333	.333	.333	.333	.000	.333	.000	.333	3.000	.375
31	38760 366	1.000	.667	1.000	.333	.333	.333	.667	.667	.333	5.000	.625



DECEMBER 1964

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOO. JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	38730	336	12	7	9	12	9	9	5	5	8.500				.5
2	38731	337	4	3	5	3	0	0	3	5	2.875				.0
3	38732	338	0	4	3	5	6	5	12	4	4.875				.3
4	38733	339	3	3	0	3	4	7	6	3	3.625				.2
5	38734	340	4	3	0	3	0	0	2	3	1.875				.0
6	38735	341	0	0	2	0	2	2	9	7	2.750				.3
7	38736	342	3	4	3	12	15	18	9	18	10.250				.7
8	38737	343	12	15	6	3	4	3	5	3	6.375				.2
9	38738	344	2	6	6	5	3	3	3	12	5.000				.3
10	38739	345	5	5	5	2	2	0	3	0	2.750				.0
11	38740	346	0	2	3	3	3	2	4	5	2.750				.1
12	38741	347	0	2	3	2	3	0	3	3	2.000				.1
13	38742	348	3	5	3	5	7	22	18	6	8.625				.7
14	38743	349	7	4	7	9	5	7	7	7	6.625				.6
15	38744	350	15	18	7	4	6	4	4	2	7.500				.3
16	38745	351	12	9	7	12	56	7	6	12	15.125				1.1
17	38746	352	39	22	15	15	5	6	7	9	14.750				.8
18	38747	353	12	6	6	4	4	2	4	6	5.500				.2
19	38748	354	6	7	5	5	7	15	18	7	8.750				.7
20	38749	355	2	0	0	7	3	3	7	7	3.625				.3
21	38750	356	4	2	6	4	4	7	3	2	4.000				.2
22	38751	357	5	4	2	2	3	4	2	4	3.250				.1
23	38752	358	3	7	7	3	4	3	2	5	4.250				.2
24	38753	359	0	2	4	0	2	5	5	5	2.875				.1
25	38754	360	0	0	2	3	5	5	6	15	4.500				.4
26	38755	361	18	3	0	2	5	3	3	3	4.625				.1
27	38756	362	3	0	0	3	2	2	3	5	2.250				.0
28	38757	363	5	3	0	0	0	2	7	6	2.875				.3
29	38758	364	5	3	12	4	4	4	2	0	4.250				.1
30	38759	365	3	2	2	2	0	2	0	2	1.875				.0
31	38760	366	4	3	4	2	2	3	3	2	2.875				.0

DECEMBER 1964

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER--1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY
1	38730 336	77.0	73.1	73.2	72.2	72.3	72.3	7.3	6.1
2	38731 337	77.0	73.3	73.3	72.3	72.3	72.3	7.3	5.7
3	38732 338	77.0	73.4	73.4	72.4	72.4	72.4	7.0	5.5
4	38733 339	79.0	73.6	73.5	72.5	72.5	72.5	6.7	5.3
5	38734 340	78.0	73.8	73.6	72.6	72.6	72.6	6.7	5.1
6	38735 341	78.0	74.0	73.7	72.7	72.7	72.7	6.7	5.2
7	38736 342	77.0	74.2	73.9	72.8	72.8	72.8	6.7	5.2
8	38737 343	78.0	74.4	74.0	72.9	72.9	72.9	7.0	5.3
9	38738 344	78.0	74.7	74.1	73.0	73.0	73.0	7.0	5.4
10	38739 345	79.0	74.9	74.3	73.1	73.1	73.1	7.1	5.5
11	38740 346	80.0	75.2	74.4	73.3	73.3	73.3	6.9	5.7
12	38741 347	78.0	75.4	74.5	73.4	73.4	73.4	7.2	5.9
13	38742 348	79.0	75.6	74.6	73.5	73.5	73.5	7.0	6.0
14	38743 349	79.0	75.7	74.8	73.7	73.7	73.7	7.0	6.2
15	38744 350	79.0	75.9	74.9	73.8	73.8	73.8	6.7	6.3
16	38745 351	81.0	76.1	75.0	74.0	74.0	74.0	6.9	6.5
17	38746 352	81.0	76.3	75.1	74.1	74.1	74.1	7.2	6.9
18	38747 353	81.0	76.6	75.2	74.2	74.2	74.2	7.4	7.2
19	38748 354	82.0	76.9	75.3	74.4	74.4	74.4	8.3	7.6
20	38749 355	80.0	77.1	75.4	74.5	74.5	74.5	9.3	7.9
21	38750 356	79.0	77.4	75.5	74.6	74.6	74.6	9.9	7.9
22	38751 357	78.0	77.6	75.6	74.7	74.7	74.7	10.5	8.1
23	38752 358	77.0	77.9	75.6	74.7	74.7	74.7	11.1	8.3
24	38753 359	76.0	78.0	75.6	74.8	74.8	74.8	11.8	8.5
25	38754 360	76.0	78.2	75.6	74.9	74.9	74.9	12.2	8.8
26	38755 361	75.0	78.3	75.6	74.9	74.9	74.9	12.7	8.8
27	38756 362	77.0	78.4	75.7	74.9	74.9	74.9	13.4	8.8
28	38757 363	78.0	78.4	75.8	74.9	74.9	74.9	14.5	8.9
29	38758 364	79.0	78.5	75.9	75.0	75.0	75.0	15.9	9.2
30	38759 365	78.0	78.5	76.0	75.1	75.1	75.1	16.7	9.5
31	38760 366	79.0	78.5	76.1	75.2	75.2	75.2	17.4	9.7
MONTHLY AVERAGE		78.4			15.1				
MONTHLY SMOOTHED		73.2			11.0				

JANUARY 1965

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	36761	1	.000	.667	.667	.333	1.000	1.000	1.667	5.667	.708
2	36762	2	2.333	2.000	1.333	.333	3.000	2.667	3.333	19.667	2.458
3	36763	3	4.000	.333	1.333	1.000	.333	.667	.667	11.000	1.375
4	36764	4	1.000	.000	.667	1.000	1.333	2.000	1.667	8.667	1.043
5	36765	5	1.333	.000	.333	.667	2.000	.000	.667	5.000	.625
6	36766	6	.667	.000	.667	.667	.000	.333	.667	3.667	.458
7	36767	7	.000	1.333	.333	.667	1.667	1.000	2.000	9.333	1.167
8	36768	8	4.333	1.333	2.333	2.667	3.333	1.667	2.667	21.000	2.625
9	36769	9	1.333	2.667	1.000	.667	1.333	2.000	3.333	13.667	1.708
10	36770	10	1.000	1.000	1.000	.667	1.333	2.000	1.667	11.000	1.375
11	36771	11	1.333	1.000	.000	.000	.333	.000	.333	3.333	.417
12	36772	12	1.000	1.667	1.000	3.000	3.333	2.333	3.667	19.333	2.417
13	36773	13	4.333	2.667	2.667	2.000	2.333	2.000	1.333	20.667	2.583
14	36774	14	1.667	2.333	1.667	2.333	1.667	.667	.667	13.333	1.667
15	36775	15	1.333	2.333	1.000	2.000	1.667	1.667	.667	12.333	1.542
16	36776	16	.333	.000	.667	.667	.667	.333	1.667	5.000	.625
17	36777	17	1.667	.333	.667	2.333	3.667	2.667	2.667	17.333	2.167
18	36778	18	.667	2.667	1.667	1.000	.333	1.000	1.667	9.667	1.200
19	36779	19	1.667	1.667	1.333	.000	.333	.667	2.667	8.667	1.083
20	36780	20	1.000	.333	.667	.000	2.000	3.000	4.000	11.000	1.375
21	36781	21	4.000	4.000	1.333	.333	1.333	1.333	1.333	14.333	1.792
22	36782	22	2.667	3.667	5.667	2.667	3.000	2.333	2.000	24.667	3.083
23	36783	23	2.000	2.667	2.333	2.000	1.333	1.667	2.000	14.667	1.833
24	36784	24	1.000	.333	.333	.000	.000	.333	.667	3.000	.375
25	36785	25	.667	1.333	.333	.000	.000	.333	.667	3.333	.417
26	36786	26	.667	.000	.000	1.333	1.000	.000	.333	5.667	.708
27	36787	27	1.333	2.333	1.667	.667	1.333	1.000	2.000	12.333	1.542
28	36788	28	2.333	.667	.333	1.333	1.667	1.667	1.667	10.000	1.250
29	36789	29	2.667	1.000	.667	.667	1.000	.667	2.000	9.333	1.167
30	36790	30	2.667	1.333	.667	1.667	.667	.000	.667	8.333	1.042
31	36791	31	1.000	.667	.000	.667	.000	1.333	1.667	5.333	.667

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

365

JANUARY 1965

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. DAY OF JULIAN	1-----SOLAR FLUX(10.7CM OTTAWA)-----1				1-----RELATIVE ZURICH SUNSPOT NUMBER-----1						
DAY	MONTH	DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY				
1		38761	1	1	87.0	78.9	76.3	75.4	1	23	18.0	12.4	10.0
2		38762	2	1	85.0	79.1	76.6	75.5	1	26	18.9	12.8	10.3
3		38763	3	1	83.0	79.3	76.8	75.7	1	31	20.1	13.4	10.7
4		38764	4	1	82.0	79.5	77.0	75.8	1	31	20.9	14.0	11.1
5		38765	5	1	81.0	79.6	77.1	75.9	1	26	21.6	14.3	11.4
6		38766	6	1	81.0	79.7	77.3	76.1	1	19	22.0	14.5	11.7
7		38767	7	1	79.0	79.6	77.4	76.1	1	18	22.2	14.5	11.7
8		38768	8	1	78.0	79.6	77.5	76.2	1	17	22.2	14.7	11.8
9		38769	9	1	77.0	79.6	77.6	76.3	1	11	22.3	14.6	11.8
10		38770	10	1	77.0	79.5	77.6	76.3	1	8	21.9	14.5	11.9
11		38771	11	1	76.0	79.4	77.6	76.4	1	7	21.8	14.3	12.0
12		38772	12	1	76.0	79.2	77.6	76.4	1	0	21.2	14.0	12.0
13		38773	13	1	76.0	79.0	77.6	76.4	1	0	20.2	13.7	11.9
14		38774	14	1	75.0	78.8	77.7	76.4	1	7	19.4	13.4	11.9
15		38775	15	1	75.0	78.5	77.7	76.4	1	8	18.6	13.4	11.9
16		38776	16	1	74.0	78.3	77.7	76.4	1	7	17.8	13.6	11.9
17		38777	17	1	74.0	78.1	77.8	76.4	1	7	17.2	13.5	12.0
18		38778	18	1	75.0	78.0	77.8	76.4	1	20	17.0	13.7	12.1
19		38779	19	1	74.0	77.9	77.9	76.4	1	22	17.2	14.1	12.2
20		38780	20	1	77.0	77.9	78.0	76.4	1	28	17.6	14.7	12.4
21		38781	21	1	77.0	78.0	78.1	76.4	1	23	17.7	15.0	12.6
22		38782	22	1	77.0	78.0	78.1	76.4	1	22	18.0	15.4	12.8
23		38783	23	1	76.0	78.0	78.2	76.5	1	13	17.8	15.6	12.8
24		38784	24	1	77.0	78.0	78.2	76.5	1	19	17.4	16.0	13.1
25		38785	25	1	76.0	77.9	78.2	76.5	1	18	16.7	16.3	13.3
26		38786	26	1	76.0	77.8	78.1	76.6	1	18	16.6	16.6	13.4
27		38787	27	1	80.0	77.8	78.2	76.7	1	34	17.1	17.3	13.6
28		38788	28	1	78.0	77.5	78.2	76.7	1	17	16.9	17.4	13.9
29		38789	29	1	79.0	77.3	78.2	76.8	1	25	16.9	17.9	14.2
30		38790	30	1	81.0	77.2	78.3	76.9	1	22	16.6	18.3	14.5
31		38791	31	1	80.0	77.1	78.3	77.0	1	15	16.0	18.4	14.6
MONTHLY AVERAGE										76.0	17.5		
MONTHLY SMOOTHED										73.8	11.7		

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

367

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

FEBRUARY 1965

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER--1									
DAY	YEAR	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	54-DAY	81-DAY	54-DAY	81-DAY				
1	38792	32	1	79.0	77.0	78.3	77.1	1	14	15.5	18.5	14.7
2	38793	33	1	79.0	77.0	78.3	77.2	1	13	15.3	18.5	14.6
3	38794	34	1	79.0	77.0	78.3	77.3	1	13	15.1	18.5	14.7
4	38795	35	1	78.0	77.0	78.3	77.3	1	13	15.0	18.5	14.8
5	38796	36	1	77.0	77.0	78.3	77.4	1	10	14.9	18.5	14.7
6	38797	37	1	77.0	77.0	78.2	77.4	1	23	15.5	18.7	14.8
7	38798	38	1	76.0	77.0	78.2	77.4	1	23	16.1	18.9	14.9
8	38799	39	1	76.0	77.0	78.1	77.4	1	17	16.7	18.9	14.9
9	38800	40	1	76.0	77.0	78.0	77.4	1	23	17.6	18.9	15.0
10	38801	41	1	76.0	77.1	77.9	77.5	1	17	17.9	18.7	14.9
11	38802	42	1	74.0	77.0	77.8	77.5	1	17	18.3	18.4	15.0
12	38803	43	1	73.0	77.0	77.6	77.5	1	23	18.9	18.3	15.3
13	38804	44	1	73.0	77.0	77.5	77.5	1	25	19.5	18.4	15.5
14	38805	45	1	72.0	76.9	77.4	77.5	1	16	19.4	18.2	15.6
15	38806	46	1	73.0	76.8	77.4	77.5	1	23	19.4	18.3	15.9
16	38807	47	1	73.0	76.7	77.3	77.5	1	15	18.9	18.2	16.1
17	38808	48	1	73.0	76.5	77.2	77.6	1	8	18.4	18.0	16.1
18	38809	49	1	72.0	76.3	77.2	77.5	1	8	17.9	17.9	16.2
19	38810	50	1	72.0	76.2	77.1	77.5	1	0	17.4	17.6	16.2
20	38811	51	1	71.0	76.0	77.0	77.4	1	0	16.7	17.1	16.2
21	38812	52	1	72.0	75.8	76.8	77.4	1	7	16.3	16.5	16.3
22	38813	53	1	72.0	75.7	76.7	77.3	1	0	15.6	16.1	16.3
23	38814	54	1	73.0	75.4	76.6	77.2	1	0	14.3	15.7	16.3
24	38815	55	1	75.0	75.3	76.4	77.2	1	13	14.2	15.6	16.4
25	38816	56	1	74.0	75.1	76.2	77.2	1	15	13.8	15.4	16.5
26	38817	57	1	74.0	74.9	76.0	77.1	1	22	13.8	15.2	16.8
27	38818	58	1	76.0	74.7	75.9	77.1	1	23	14.1	15.0	17.0
28	38819	59	1	76.0	74.6	75.8	77.1	1	18	14.3	14.9	17.1

MONTHLY AVERAGE 74.7  
MONTHLY SMOOTHED 74.3

14.2  
12.0



# QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF		KP								SUM KP	AVG. KP	
	YEAR		1	2	3	4	5	6	7	8			
1	38820	60	1.000	1.333	.333	1.333	2.333	3.333	3.333	1.667	1.333	12.667	1.583
2	38821	61	.000	1.333	1.333	1.333	2.000	3.333	3.333	3.333	2.000	14.667	1.833
3	38822	62	3.333	3.667	4.000	3.000	3.333	4.667	4.667	4.667	4.000	30.667	3.833
4	38823	63	4.000	6.000	4.000	3.333	2.000	1.333	1.333	1.000	.667	22.333	2.792
5	38824	64	.000	.667	2.000	3.333	2.000	1.667	1.667	2.000	1.667	13.333	1.667
6	38825	65	1.000	1.000	.333	.667	.333	1.000	1.000	2.000	2.333	8.667	1.083
7	38826	66	3.000	1.667	1.667	1.667	2.333	2.000	2.000	1.000	.333	13.667	1.708
8	38827	67	.333	.333	.667	1.000	.667	.333	.333	.333	.000	3.667	.458
9	38828	68	1.000	.667	1.667	.667	1.667	.667	.667	.333	1.333	8.000	1.000
10	38829	69	1.333	.000	.000	.333	1.000	.000	.000	.333	.000	3.000	.375
11	38830	70	1.667	1.333	1.000	.667	.333	.667	.667	1.000	.333	7.000	.875
12	38831	71	.000	.333	.333	.000	2.333	1.333	1.333	2.333	2.000	8.667	1.083
13	38832	72	1.667	2.000	2.333	3.333	3.333	2.667	1.333	1.333	.333	17.000	2.125
14	38833	73	.333	2.000	1.000	1.000	2.333	1.667	1.667	2.000	2.667	13.000	1.625
15	38834	74	3.333	2.000	3.333	2.667	1.333	2.667	3.333	3.333	1.000	19.667	2.458
16	38835	75	1.333	2.000	.333	1.000	.333	.333	.333	.333	2.333	8.000	1.000
17	38836	76	.667	1.000	1.333	1.000	1.667	2.333	2.333	2.000	.333	10.333	1.292
18	38837	77	.333	.333	.667	.000	.667	.333	.333	.000	.000	2.333	.292
19	38838	78	.000	.333	1.667	1.667	1.333	.333	.333	.667	1.667	7.667	.958
20	38839	79	2.000	.000	.333	2.000	2.333	.667	.667	1.667	1.333	10.333	1.292
21	38840	80	2.667	1.000	1.000	1.667	2.667	1.667	1.667	1.333	3.333	15.333	1.917
22	38841	81	.667	.333	.667	.333	.667	.667	1.333	3.000	4.000	11.000	1.375
23	38842	82	2.000	3.667	4.333	3.000	3.000	4.333	4.333	5.000	4.333	29.667	3.708
24	38843	83	1.333	1.667	3.000	4.000	3.667	2.000	2.000	2.000	2.333	20.000	2.500
25	38844	84	2.000	3.333	5.000	4.333	2.333	1.667	1.667	4.000	2.333	25.000	3.125
26	38845	85	4.333	3.000	3.667	2.333	1.667	1.667	1.667	2.000	2.333	21.000	2.625
27	38846	86	2.667	2.333	2.667	1.667	1.333	2.000	2.000	3.000	1.333	17.000	2.125
28	38847	87	.667	2.000	2.667	1.333	.667	1.333	.333	.333	.333	9.333	1.167
29	38848	88	2.000	1.667	1.333	.667	2.000	1.667	1.667	2.000	1.000	12.333	1.542
30	38849	89	.000	.000	.333	.667	1.000	1.000	1.000	1.000	.333	4.333	.592
31	38850	90	1.333	2.000	1.333	1.667	.333	.333	.333	.333	1.000	8.333	1.042

# GEOMAGNETIC PLANETARY INDICES

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

MARCH 1965

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY		MOD.	DAY	1--SOLAR	1--RELATIVE	ZURICH		SUNSPOT	NUMBER			
OF	JULIAN	OF	YEAR	1--	1--	1--	1--	1--	1--	1--		
MONTH	DAY	DAY	YEAR	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY	DAILY 27-DAY		
1	38820	60	1	76.0	74.5	75.7	77.0	1	16	14.4	14.8	17.2
2	38821	61	1	75.0	74.3	75.6	77.0	1	7	14.1	14.6	17.1
3	38822	62	1	75.0	74.2	75.6	76.9	1	0	13.7	14.3	17.0
4	38823	63	1	75.0	74.1	75.6	76.9	1	8	13.6	14.3	16.9
5	38824	64	1	76.0	74.1	75.5	76.9	1	13	13.2	14.4	16.9
6	38825	65	1	77.0	74.1	75.6	76.8	1	26	13.3	14.7	17.1
7	38826	66	1	77.0	74.1	75.6	76.8	1	26	13.7	15.2	17.2
8	38827	67	1	74.0	74.0	75.5	76.7	1	7	13.1	15.3	16.9
9	38828	68	1	73.0	73.9	75.5	76.6	1	0	12.4	15.2	16.6
10	38829	69	1	73.0	73.9	75.5	76.5	1	12	12.3	15.3	16.4
11	38830	70	1	72.0	73.9	75.4	76.4	1	9	11.7	15.3	16.1
12	38831	71	1	73.0	73.9	75.4	76.3	1	18	11.5	15.5	16.1
13	38832	72	1	75.0	74.0	75.4	76.3	1	16	11.5	15.4	15.9
14	38833	73	1	74.0	74.0	75.4	76.2	1	17	11.3	15.3	16.0
15	38834	74	1	72.0	74.0	75.3	76.2	1	12	11.1	15.0	15.9
16	38835	75	1	71.0	73.9	75.2	76.1	1	9	11.2	14.8	15.8
17	38836	76	1	71.0	73.9	75.1	76.1	1	11	11.3	14.6	15.7
18	38837	77	1	75.0	74.0	75.1	76.0	1	22	12.1	14.7	15.8
19	38838	78	1	77.0	74.2	75.1	76.0	1	17	12.7	14.7	15.6
20	38839	79	1	74.0	74.3	75.0	76.0	1	19	13.2	14.7	15.4
21	38840	80	1	74.0	74.3	75.0	75.9	1	9	13.5	14.6	15.2
22	38841	81	1	72.0	74.3	74.9	75.8	1	0	13.5	13.9	15.0
23	38842	82	1	73.0	74.2	74.8	75.7	1	0	13.0	13.6	14.7
24	38843	83	1	72.0	74.1	74.6	75.5	1	7	12.7	13.3	14.5
25	38844	84	1	74.0	74.1	74.5	75.4	1	17	12.6	13.2	14.3
26	38845	85	1	73.0	74.0	74.4	75.3	1	10	12.1	13.1	14.0
27	38846	86	1	72.0	73.9	74.2	75.2	1	18	12.1	13.2	14.0
28	38847	87	1	71.0	73.7	74.1	75.0	1	12	11.9	13.1	13.9
29	38848	88	1	72.0	73.6	74.0	75.0	1	9	12.0	13.1	13.8
30	38849	89	1	71.0	73.4	73.8	74.9	1	9	12.3	13.0	13.7
31	38850	90	1	71.0	73.3	73.7	74.8	1	8	12.3	13.0	13.6

MONTHLY AVERAGE 73.5  
MONTHLY SMOOTHED 74.8

11.7  
12.5

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY	MOD.	DAY	OF	KP	KP	KP	KP	KP	KP	KP	KP	SUM	AVG.
MONTH	JULIAN	YEAR	DAY	1	2	3	4	5	6	7	8	KP	KP
1	38851	91	2	333	1	333	333	1	000	667	667	8	1
2	38852	92	3	333	1	000	667	000	333	333	000	4	1
3	38853	93	3	000	1	000	667	333	1	333	667	5	6
4	38854	94	3	333	2	000	2	333	2	000	1	12	1
5	38855	95	3	333	2	667	667	333	333	667	1	6	7
6	38856	96	1	333	2	000	1	333	667	2	333	4	7
7	38857	97	3	000	3	333	1	333	2	667	1	15	1
8	38858	98	1	000	333	333	667	1	000	667	1	15	8
9	38859	99	3	000	4	000	667	667	2	000	1	6	8
10	38860	100	3	333	2	000	1	667	333	333	667	17	2
11	38861	101	1	667	1	000	1	000	667	1	000	10	2
12	38862	102	2	333	2	333	667	667	1	000	3	6	1
13	38863	103	2	667	2	000	667	1	333	1	000	13	6
14	38864	104	1	667	2	000	667	1	000	1	333	9	1
15	38865	105	1	333	2	000	667	333	667	1	667	10	2
16	38866	106	1	667	1	333	667	667	1	667	1	8	4
17	38867	107	0	000	333	667	333	667	4	000	3	7	0
18	38868	108	4	000	7	000	6	333	5	333	3	14	8
19	38869	109	3	000	1	667	1	333	3	000	2	40	5
20	38870	110	3	000	2	333	2	667	3	667	2	21	7
21	38871	111	1	333	0	000	2	667	3	667	1	17	2
22	38872	112	6	67	1	333	6	67	2	000	1	6	7
23	38873	113	6	67	1	333	1	000	6	67	3	9	1
24	38874	114	2	000	1	000	6	67	2	333	1	10	2
25	38875	115	6	67	1	333	1	000	6	67	1	8	3
26	38876	116	3	000	6	67	1	000	2	000	2	12	1
27	38877	117	1	333	3	000	1	333	1	333	1	9	5
28	38878	118	1	333	1	000	6	67	333	667	0	9	6
29	38879	119	0	000	1	333	1	000	333	667	2	5	7
30	38880	120	2	000	1	667	2	000	6	67	1	9	1

APRIL 1965

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	
1	38851	91	9	6	5	2	4	3	3	3	2	2	4.250	4.250	.0
2	38852	92	2	4	4	3	0	2	0	0	3	3	2.250	2.250	.0
3	38853	93	0	4	3	2	5	3	3	3	3	3	2.875	2.875	.0
4	38854	94	2	7	12	7	9	7	4	4	2	2	6.250	6.250	.5
5	38855	95	2	12	3	2	2	2	3	3	4	4	3.750	3.750	.1
6	38856	96	5	7	5	3	9	12	6	6	9	9	7.000	7.000	.4
7	38857	97	15	18	5	5	12	6	3	3	4	4	8.500	8.500	.4
8	38858	98	4	2	2	3	4	4	4	3	6	6	3.500	3.500	.2
9	38859	99	15	27	15	3	3	7	6	12	12	11.000	11.000	.6	
10	38860	100	18	7	4	6	2	2	3	3	3	3	5.625	5.625	.3
11	38861	101	6	4	4	3	4	15	22	5	7.875	7.875	.7		
12	38862	102	9	9	3	3	5	4	12	9	9	9	6.750	6.750	.5
13	38863	103	12	7	6	3	4	4	2	2	3	3	5.125	5.125	.3
14	38864	104	6	7	3	4	6	5	2	4	4	4	4.625	4.625	.2
15	38865	105	5	7	3	2	3	6	3	3	4	4	.004	.004	.2
16	38866	106	6	5	3	3	3	3	4	2	2	2	3.625	3.625	.2
17	38867	107	0	2	3	2	15	32	27	7	11.000	11.000	.9		
18	38868	108	27	132	179	94	56	32	18	7	68.375	68.375	1.8		
19	38869	109	15	6	5	15	12	22	12	22	22	13.625	13.625	1.0	
20	38870	110	15	9	7	12	22	5	4	6	6	10.000	10.000	.8	
21	38871	111	5	0	0	3	4	5	4	3	3	3.000	3.000	.2	
22	38872	112	3	5	3	7	4	3	2	12	4.875	4.875	.4		
23	38873	113	3	4	5	4	3	6	3	9	4.625	4.625	.2		
24	38874	114	7	4	3	7	9	6	2	0	4.750	4.750	.3		
25	38875	115	3	5	4	3	3	6	4	5	4.125	4.125	.2		
26	38876	116	15	3	4	5	7	7	7	5	6.250	6.250	.4		
27	38877	117	5	4	4	4	5	6	5	3	4.625	4.625	.2		
28	38878	118	5	4	3	2	3	4	3	0	3.000	3.000	.1		
29	38879	119	0	5	4	4	2	6	12	4	4.625	4.625	.4		
30	38880	120	7	6	7	3	3	5	4	4	4.875	4.875	.2		

388

APRIL 1965

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1---SOLAR FLUX(10.7CM OTTAWA)---				1---RELATIVE ZURICH SUNSPOT NUMBER---				1---RUNNING MEANS---				1---RELATIVE ZURICH SUNSPOT NUMBER---				1---RUNNING MEANS---							
		1				1				1				1				1				1			
		DAILY	27-DAY	54-DAY	81-DAY	DAILY	27-DAY	54-DAY	81-DAY	DAILY	27-DAY	54-DAY	81-DAY	DAILY	27-DAY	54-DAY	81-DAY	DAILY	27-DAY	54-DAY	81-DAY				
1	38851	91	1	71.0	73.1	73.6	74.7	1	0	11.9	12.5	13.5													
2	38852	92	1	71.0	72.9	73.5	74.7	1	0	10.9	12.1	13.4													
3	38853	93	1	71.0	72.7	73.4	74.6	1	0	9.9	11.8	13.4													
4	38854	94	1	71.0	72.6	73.3	74.5	1	0	9.7	11.4	13.4													
5	38855	95	1	70.0	72.4	73.2	74.5	1	0	9.7	11.1	13.3													
6	38856	96	1	71.0	72.4	73.1	74.4	1	0	9.2	10.7	13.2													
7	38857	97	1	70.0	72.3	73.1	74.4	1	0	8.9	10.3	13.2													
8	38858	98	1	70.0	72.2	73.0	74.3	1	0	8.2	9.9	13.1													
9	38859	99	1	71.0	72.0	73.0	74.3	1	0	7.6	9.4	12.8													
10	38860	100	1	73.0	72.0	73.0	74.3	1	0	7.0	9.1	12.6													
11	38861	101	1	73.0	72.0	73.0	74.2	1	0	6.6	8.9	12.2													
12	38862	102	1	73.0	72.1	73.0	74.2	1	9	6.6	8.9	12.0													
13	38863	103	1	73.0	72.2	73.0	74.1	1	9	6.5	8.9	11.9													
14	38864	104	1	75.0	72.2	73.1	74.1	1	15	6.2	9.2	11.9													
15	38865	105	1	75.0	72.1	73.1	74.1	1	27	6.6	9.7	12.0													
16	38866	106	1	74.0	72.1	73.2	74.1	1	18	6.6	9.9	12.0													
17	38867	107	1	73.0	72.1	73.2	74.0	1	17	6.9	10.2	12.0													
18	38868	108	1	73.0	72.1	73.2	73.9	1	8	7.1	10.3	11.7													
19	38869	109	1	74.0	72.1	73.2	73.9	1	7	7.4	10.2	11.5													
20	38870	110	1	72.0	72.1	73.1	73.8	1	7	7.4	10.1	11.3													
21	38871	111	1	73.0	72.1	73.1	73.7	1	9	7.1	9.8	11.2													
22	38872	112	1	72.0	72.1	73.1	73.6	1	15	7.3	9.7	11.2													
23	38873	113	1	73.0	72.1	73.0	73.5	1	17	7.3	9.7	11.2													
24	38874	114	1	70.0	72.1	72.9	73.4	1	10	7.2	9.6	11.2													
25	38875	115	1	69.0	72.0	72.8	73.3	1	7	7.1	9.6	11.1													
26	38876	116	1	69.0	71.9	72.7	73.2	1	11	7.2	9.8	11.1													
27	38877	117	1	69.0	71.8	72.6	73.1	1	10	7.3	9.8	11.1													
28	38878	118	1	69.0	71.7	72.4	73.0	1	8	7.6	9.7	10.9													
29	38879	119	1	70.0	71.7	72.3	72.9	1	0	7.6	9.2	10.6													
30	38880	120	1	69.0	71.6	72.1	72.8	1	0	7.6	8.7	10.4													

MONTHLY AVERAGE 71.6  
MONTHLY SMOOTHED 75.4

6.9  
13.6

MAY 1965

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG, KP
1	38881 121	1.333	.667	.667	.667	1.333	.667	.667	1.000	.667	7.000	.875
2	38882 122	.667	.000	.000	.333	.667	.667	.667	.333	.667	2.667	.333
3	38883 123	1.000	.667	.667	.333	.333	1.000	1.000	.000	.333	5.000	.625
4	38884 124	.333	1.333	.667	.667	.667	.333	1.667	1.333	2.000	8.333	1.042
5	38885 125	4.333	5.000	5.333	3.333	3.333	2.333	3.333	2.333	3.333	29.333	3.667
6	38886 126	2.000	.667	2.333	2.333	1.000	2.000	1.000	1.333	2.333	12.667	1.583
7	38887 127	3.000	2.333	.667	1.333	1.333	1.000	.333	1.333	.000	10.000	1.250
8	38888 128	1.000	1.000	1.333	1.333	1.667	1.333	2.667	3.333	4.333	16.667	2.083
9	38889 129	4.333	3.667	1.667	1.333	1.333	1.333	.667	2.000	2.667	17.667	2.208
10	38890 130	3.000	2.333	2.667	1.667	1.667	.667	.667	1.333	1.667	14.000	1.750
11	38891 131	.333	.000	.000	.333	.333	.333	.667	.667	1.000	3.333	.417
12	38892 132	2.000	2.333	1.333	1.333	1.000	.667	.667	.333	1.000	9.000	1.125
13	38893 133	.000	.333	.333	.667	.667	.667	1.000	.667	1.000	5.000	.625
14	38894 134	.667	.667	.333	.333	.333	.667	.667	1.000	.333	4.667	.583
15	38895 135	1.333	.333	.333	.333	1.000	1.000	1.000	1.333	2.000	8.333	1.042
16	38896 136	2.333	2.667	3.333	3.333	3.667	5.333	2.333	1.333	2.333	23.333	2.917
17	38897 137	1.667	2.000	2.000	1.333	1.333	1.000	1.000	1.333	.333	10.667	1.333
18	38898 138	.667	2.000	.667	.667	.667	.333	1.000	1.000	1.333	7.667	.958
19	38899 139	.667	.667	.667	.667	1.000	.333	.333	.000	.667	4.333	.542
20	38900 140	.333	.667	.333	.333	.333	1.000	1.667	1.000	1.667	7.000	.875
21	38901 141	1.667	1.333	.333	.333	.667	1.333	1.667	2.000	2.000	11.000	1.375
22	38902 142	2.000	1.667	1.000	1.000	1.000	.667	2.000	2.333	1.333	12.000	1.500
23	38903 143	1.333	1.000	2.333	2.333	1.000	1.000	1.000	.333	2.000	10.000	1.250
24	38904 144	1.667	1.000	2.333	.667	1.000	1.000	2.000	2.333	1.000	12.333	1.542
25	38905 145	.333	.333	.667	.667	.667	.667	1.000	1.000	.667	5.333	.667
26	38906 146	.667	1.000	1.000	.667	.667	.333	1.000	1.667	2.000	8.333	1.042
27	38907 147	2.333	1.667	1.000	1.000	1.333	1.000	2.000	1.333	1.667	12.333	1.542
28	38908 148	.667	1.000	.333	.333	2.000	2.000	2.333	1.667	.667	10.667	1.333
29	38909 149	1.000	.333	.667	.667	.667	1.000	1.000	.667	1.000	6.000	.750
30	38910 150	.667	.667	.333	.333	.667	1.000	1.000	.667	.333	5.333	.667
31	38911 151	.667	.667	1.000	1.000	1.667	1.333	1.000	1.000	.667	8.000	1.000

# GEOMAGNETIC PLANETARY INDICES

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

377



11:2

RELATIVE ZÜRICH SUNSPOT NUMBER=1

MONTHLY AVERAGE	77.8
MONTHLY SMOOTHED	75.3

24.1  
14.6

JUNE 1965

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38912 152	.667	.333	1.000	1.000	1.000	1.667	1.333	1.667	2.000	9.667	1.208
2	38913 153	1.000	1.000	1.333	1.000	1.000	1.667	1.333	2.667	2.000	12.000	1.500
3	38914 154	.667	.333	.333	.333	.333	1.000	2.000	4.333	3.333	12.333	1.542
4	38915 155	.667	1.667	1.667	3.000	3.000	3.000	3.000	2.667	3.333	19.000	2.375
5	38916 156	3.000	2.667	1.667	1.000	1.000	1.000	.667	1.000	1.000	12.000	1.500
6	38917 157	.667	1.333	.667	1.667	1.667	1.333	1.333	2.000	1.000	10.000	1.250
7	38918 158	1.667	1.000	.000	1.000	1.000	1.000	1.000	.333	.000	6.000	.750
8	38919 159	.667	.667	2.333	1.667	1.667	1.667	2.000	3.333	3.667	16.000	2.000
9	38920 160	3.333	3.667	2.667	1.667	1.667	2.667	3.000	2.333	1.667	21.000	2.625
10	38921 161	1.333	.667	.333	.333	.333	.333	.000	.000	.000	3.000	.375
11	38922 162	.000	.667	.333	.667	.667	1.000	1.667	2.667	2.000	9.000	1.125
12	38923 163	.667	1.000	1.000	1.000	1.000	1.000	.667	.333	.667	6.333	.792
13	38924 164	.333	.333	.333	1.000	1.000	.000	.000	.333	.333	2.667	.333
14	38925 165	.333	1.000	1.000	1.667	1.667	1.667	2.000	2.667	2.333	12.667	1.583
15	38926 166	1.333	1.667	1.333	3.333	3.333	4.000	3.333	5.227	4.333	24.000	3.000
16	38927 167	5.000	4.667	5.000	5.000	5.000	7.000	6.333	6.667	5.667	45.333	5.667
17	38928 168	5.333	5.000	4.667	3.000	3.667	3.667	3.000	1.667	5.667	32.000	4.000
18	38929 169	4.333	3.000	1.000	1.667	.333	.333	1.000	3.333	2.333	17.000	2.125
19	38930 170	1.667	1.000	1.000	.333	.333	.333	.667	1.000	.000	4.333	.542
20	38931 171	.333	.000	.333	.333	.333	.333	.333	.000	.000	3.000	.375
21	38932 172	.333	.333	.000	.333	.333	.333	.333	.000	.000	2.000	.250
22	38933 173	.667	1.000	.667	1.333	1.000	1.000	.667	.667	1.333	7.333	.917
23	38934 174	1.667	.333	.333	.333	.667	.667	1.000	.667	.000	5.333	.667
24	38935 175	.667	.333	.333	.333	.333	.667	1.333	1.000	.333	5.000	.625
25	38936 176	.333	1.000	.667	1.000	.667	3.333	4.000	3.333	2.333	16.000	2.000
26	38937 177	3.000	2.667	2.000	2.000	.667	.667	1.000	3.000	3.333	17.667	2.208
27	38938 178	3.000	2.000	1.667	1.667	1.667	1.667	1.000	.667	.667	12.333	1.542
28	38939 179	.333	1.333	.667	1.000	.667	1.000	.667	.667	.667	6.333	.792
29	38940 180	2.000	2.333	3.333	2.667	2.667	2.333	2.667	2.333	2.667	20.333	2.542
30	38941 181	1.667	2.333	3.000	2.667	3.000	3.000	2.000	3.000	4.333	22.000	2.750

410

PLANETARY AMPITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	MAGNETIC CHARACTER											
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
1	38912	152	3	2	4	4	6	5	6	7	7	4.625	.3	
2	38913	153	4	4	5	4	6	5	12	7	7	5.875	.4	
3	38914	154	3	2	2	2	4	7	32	18	18	9.750	.7	
4	38915	155	3	6	6	15	15	15	12	18	15	11.250	.9	
5	38916	156	15	12	6	4	4	3	4	4	4	6.500	.4	
6	38917	157	3	5	3	6	5	5	7	4	4	4.750	.3	
7	38918	158	6	4	0	4	4	4	2	0	0	3.000	.2	
8	38919	159	3	3	9	6	6	7	18	22	22	9.250	.8	
9	38920	160	18	22	12	6	12	15	9	6	6	12.500	.9	
10	38921	161	5	3	2	2	2	0	0	0	0	1.750	.1	
11	38922	162	0	3	2	3	4	6	12	7	7	4.625	.3	
12	38923	163	3	4	4	4	4	3	2	3	3	3.375	.2	
13	38924	164	2	2	2	4	0	0	2	2	2	1.750	.0	
14	38925	165	2	4	4	6	6	7	12	9	9	6.250	.5	
15	38926	166	5	6	5	18	27	18	39	32	32	18.750	1.1	
16	38927	167	48	39	48	48	132	94	111	67	67	73.375	1.8	
17	38928	168	56	48	39	15	22	15	6	67	67	33.500	1.4	
18	38929	169	32	15	4	6	2	4	18	9	9	11.250	.9	
19	38930	170	6	4	4	2	2	0	0	0	0	2.250	.1	
20	38931	171	2	0	2	2	2	3	4	0	0	1.875	.0	
21	38932	172	2	2	0	2	2	2	0	2	2	1.500	.0	
22	38933	173	3	4	3	5	4	3	3	5	5	3.750	.2	
23	38934	174	6	2	2	3	3	4	3	0	0	2.875	.1	
24	38935	175	3	2	2	2	3	5	4	2	2	2.875	.2	
25	38936	176	2	4	3	4	18	27	16	9	9	10.625	.8	
26	38937	177	15	12	7	7	3	4	15	18	18	10.125	.6	
27	38938	178	15	7	6	6	6	4	3	3	3	6.250	.4	
28	38939	179	2	5	3	4	4	3	3	3	3	3.375	.2	
29	38940	180	7	9	14	12	9	12	9	12	12	11.000	.4	
30	38941	181	6	9	15	12	15	7	15	32	32	13.875	1.1	

RELATIVE TIME ZURICH SUNSPOT NUMBER ACTIVITY

MONTHLY AVERAGE	75.6	15.9
MONTHLY SMOOTHED	75.9	15.0

JULY 1965

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	38942 182	3.333	2.000	3.000	3.000	2.333	1.667	3.333	3.000	21.667	2.708
2	38943 183	1.667	1.667	2.000	1.333	1.667	1.000	1.000	1.333	11.667	1.458
3	38944 184	2.333	1.333	1.333	.667	.667	.667	2.000	2.000	11.000	1.375
4	38945 185	1.000	.667	1.000	.333	.333	.667	1.000	1.333	6.333	.792
5	38946 186	1.000	.667	.667	1.000	.333	.333	.667	1.000	5.667	.708
6	38947 187	1.667	4.667	3.667	4.000	4.000	3.333	1.667	1.667	24.667	3.083
7	38948 188	2.333	2.000	1.667	1.667	1.000	1.333	2.333	3.000	15.333	1.917
8	38949 189	4.000	4.000	1.667	4.333	2.667	4.333	4.000	4.333	27.000	3.375
9	38950 190	3.667	3.667	1.000	2.000	2.000	2.333	2.667	3.000	20.333	2.542
10	38951 191	3.000	4.667	3.333	3.000	3.000	1.333	.667	1.000	20.000	2.500
11	38952 192	.333	1.000	.333	.000	.667	.667	.333	.667	4.000	.500
12	38953 193	.333	.333	.000	.333	.667	2.000	3.333	2.000	9.000	1.125
13	38954 194	1.333	1.333	1.000	2.000	1.667	1.667	1.667	.667	11.333	1.417
14	38955 195	1.667	1.000	.667	.333	.333	1.333	1.000	1.667	8.000	1.000
15	38956 196	1.667	1.667	2.333	3.000	3.000	1.333	1.333	3.000	17.333	2.167
16	38957 197	2.000	.667	1.000	.333	.667	.667	.667	.667	6.667	.833
17	38958 198	.333	.000	.333	.667	.667	.333	1.333	.000	3.667	.458
18	38959 199	.000	.000	.333	.333	.667	3.667	3.000	1.333	9.333	1.167
19	38960 200	2.333	2.333	4.000	3.000	2.667	2.667	2.667	2.000	21.667	2.708
20	38961 201	1.000	.333	1.000	1.667	1.000	1.667	2.000	2.000	10.667	1.333
21	38962 202	2.333	1.333	1.000	.000	.333	.333	.667	.000	6.000	.750
22	38963 203	.667	.667	1.000	.667	.667	.667	1.333	2.667	8.333	1.042
23	38964 204	2.333	2.667	2.333	1.333	3.667	3.000	3.000	3.333	21.667	2.708
24	38965 205	1.667	2.000	2.333	2.667	2.333	1.333	2.000	1.000	15.333	1.917
25	38966 206	2.667	1.667	2.333	1.000	1.000	1.000	1.000	.333	11.000	1.375
26	38967 207	.333	1.333	1.000	1.000	.667	.667	.667	1.000	6.667	.833
27	38968 208	1.333	1.667	2.000	1.667	2.000	2.333	2.667	2.333	16.000	2.000
28	38969 209	3.667	3.333	4.667	2.333	2.333	2.000	2.333	2.333	23.000	2.875
29	38970 210	1.667	3.000	3.333	2.000	3.000	2.667	3.000	1.333	20.000	2.500
30	38971 211	1.667	1.333	1.000	.333	.333	.667	.667	2.333	8.333	1.042
31	38972 212	.667	.667	.667	.667	.333	.667	1.000	.667	5.333	.667

# GEOMAGNETIC PLANETARY INDICES

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH		MOD. JULIAN DAY		AP		AP		AP		AP		AP		AP		AP		MAGNETIC CHARACTER	
DAY	MONTH	DAY	YEAR	AP	2	3	4	5	6	7	8	AP	AP	AP	AP	AP	AP	AP	AP
1	38942	182	18	7	15	15	9	6	18	15	12.875	.8							
2	38943	183	6	6	7	5	6	4	4	5	5.375	.3							
3	38944	184	9	5	5	3	3	3	7	7	5.250	.4							
4	38945	185	4	3	4	2	2	2	4	5	3.375	.1							
5	38946	186	4	3	3	3	2	2	3	4	3.125	.2							
6	38947	187	6	3	22	27	18	6	6	6	19.875	1.1							
7	38948	188	9	7	6	6	4	4	9	15	7.625	.4							
8	38949	189	27	27	6	7	12	32	27	32	21.250	1.2							
9	38950	190	22	22	4	7	7	9	12	15	12.250	.8							
10	38951	191	15	39	18	15	15	5	3	4	14.250	1.0							
11	38952	192	2	4	2	0	3	3	2	3	2.375	.0							
12	38953	193	2	2	0	2	3	7	18	7	5.125	.5							
13	38954	194	5	5	4	7	6	6	6	3	5.250	.4							
14	38955	195	6	4	3	2	2	5	4	6	4.000	.2							
15	38956	196	6	6	9	15	15	5	5	15	9.500	.7							
16	38957	197	7	3	4	2	3	3	3	3	3.500	.2							
17	38958	198	2	0	2	3	3	2	5	0	2.125	.0							
18	38959	199	0	0	2	2	3	22	15	5	6.125	.6							
19	38960	200	9	9	27	15	12	12	12	7	12.875	1.0							
20	38961	201	4	2	4	6	4	6	7	7	5.000	.3							
21	38962	202	9	5	4	0	2	2	3	0	3.125	.1							
22	38963	203	3	3	4	3	3	3	5	12	4.500	.2							
23	38964	204	9	12	9	5	22	15	15	18	13.125	.8							
24	38965	205	6	7	9	12	9	5	7	4	7.375	.6							
25	38966	206	12	6	9	4	4	4	4	2	5.625	.3							
26	38967	207	2	5	4	4	4	3	3	4	3.500	.2							
27	38968	208	5	6	7	6	7	9	12	9	7.625	.4							
28	38969	209	22	18	39	9	9	9	7	9	15.250	.9							
29	38970	210	6	15	18	7	15	12	15	5	11.625	.6							
30	38971	211	6	5	3	2	2	3	3	2	4.250	.2							
31	38972	212	6	3	4	3	2	3	4	3	3.000	.1							

132

DAY	MOD.	DAY	1	SOLAR	FLUX	10.7CM	OTTAWA	1	RELATIVE	ZURICH	SUNSPOT	NUMBER
OF	OF		1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35	35	35	35	35	35
36	36	36	36									

MONTHLY AVERAGE	73.9
MONTHLY SMOOTHED	76.3

11.9  
15.5

AUGUST 1965

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	38973 213	.333	1.000	.333	.333	.333	1.000	.667	2.667	2.333	8.667	1.083
2	38974 214	1.000	2.000	2.333	2.667	3.333	3.333	3.000	2.667	2.333	19.333	2.417
3	38975 215	2.000	2.000	1.667	1.333	2.000	2.333	2.667	1.667	.667	13.667	1.708
4	38976 216	1.667	1.000	1.333	.667	2.000	2.667	1.333	2.667	1.333	13.333	1.667
5	38977 217	.667	.333	.333	1.000	1.333	1.667	1.333	1.667	1.667	8.333	1.042
6	38978 218	1.000	.667	1.000	.333	1.000	.667	.667	.667	.667	6.000	.750
7	38979 219	.667	.667	1.667	1.667	2.000	1.667	2.000	1.667	2.333	12.667	1.583
8	38980 220	2.333	2.000	1.000	.667	1.667	1.333	2.000	1.000	1.000	12.000	1.500
9	38981 221	.667	1.333	.333	1.333	2.333	2.333	2.333	2.333	2.667	13.333	1.667
10	38982 222	.667	1.333	1.000	1.667	1.667	1.000	.667	1.000	.667	9.000	1.125
11	38983 223	2.333	3.000	1.000	.667	.667	1.000	1.000	1.333	2.333	12.333	1.542
12	38984 224	2.000	2.000	2.000	1.000	.667	.667	1.667	1.333	2.000	12.667	1.583
13	38985 225	.000	.333	.333	.333	.333	.333	.667	1.333	1.333	4.667	.583
14	38986 226	2.000	2.000	2.000	2.000	2.000	2.667	1.667	2.333	2.333	16.000	2.000
15	38987 227	1.000	1.000	1.333	1.000	.667	.667	.667	2.667	2.667	11.000	1.375
16	38988 228	2.667	.667	1.667	.667	.333	.333	1.000	3.000	2.667	12.667	1.583
17	38989 229	2.333	3.000	2.333	3.333	3.333	3.000	1.000	2.667	2.667	19.333	2.417
18	38990 230	1.667	.000	.000	1.000	1.000	2.000	3.333	6.333	4.667	19.000	2.375
19	38991 231	3.667	5.000	5.333	5.333	2.000	4.000	3.333	3.333	3.667	30.333	3.792
20	38992 232	2.333	2.000	3.333	3.333	3.000	3.000	2.667	2.667	5.000	24.000	3.000
21	38993 233	4.000	3.667	3.000	3.000	3.000	2.333	1.000	.667	.333	18.000	2.250
22	38994 234	.333	.667	1.000	2.000	2.000	1.667	1.333	1.333	2.333	10.667	1.333
23	38995 235	2.000	.000	.333	.333	.333	.667	3.333	3.000	4.000	13.667	1.708
24	38996 236	4.000	3.000	4.000	2.667	2.667	1.000	.667	.667	3.333	19.333	2.417
25	38997 237	4.000	3.000	3.000	1.667	1.667	1.667	2.667	2.667	2.333	21.000	2.625
26	38998 238	3.333	1.667	2.000	1.667	1.667	1.333	1.333	.333	1.667	13.667	1.708
27	38999 239	1.333	.667	1.667	1.333	1.667	1.667	1.000	2.000	2.333	12.000	1.500
28	39000 240	2.000	1.000	1.000	.333	.667	.667	.333	.667	.333	6.333	.792
29	39001 241	1.000	2.000	1.333	.333	.333	.667	.667	3.000	1.333	10.333	1.292
30	39002 242	3.667	2.000	2.000	1.333	1.000	1.333	1.333	2.333	1.333	15.000	1.875
31	39003 243	2.667	3.000	3.333	3.333	3.333	2.333	1.333	1.333	2.000	19.333	2.417



## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN OF DAY YEAR	MAGNETIC CHARACTER								
		AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AVG AP
1	38973 213	2	4	2	2	2	5	12	9	4.750 .3
2	38974 214	4	7	9	12	18	15	12	9	10.750 .8
3	38975 215	7	7	6	5	7	9	6	3	6.250 .5
4	38976 216	6	4	5	3	7	12	5	12	6.750 .6
5	38977 217	3	2	2	4	5	5	6	6	4.125 .1
6	38978 218	4	3	4	2	4	3	3	3	3.250 .1
7	38979 219	3	3	6	7	6	7	6	9	5.875 .4
8	38780 220	9	7	4	3	6	5	7	4	5.625 .5
9	38981 221	3	5	2	5	9	9	9	12	6.750 .5
10	38982 222	3	5	4	6	6	4	3	4	4.375 .2
11	38983 223	9	15	4	3	3	4	5	9	6.500 .5
12	38984 224	7	7	7	4	3	6	5	7	5.750 .4
13	38985 225	0	2	2	2	2	3	5	5	2.625 .0
14	38986 226	7	7	7	7	12	5	6	9	7.500 .6
15	38987 227	4	4	5	4	3	3	12	12	5.875 .4
16	38988 228	12	3	6	3	2	4	15	12	7.125 .4
17	38989 229	9	15	9	18	15	4	12	6	11.000 .7
18	38990 230	6	0	0	4	7	18	94	39	21.000 1.0
19	38991 231	22	48	56	7	27	18	18	22	27.250 1.4
20	38992 232	9	7	10	15	15	12	12	48	17.000 1.2
21	38993 233	27	22	15	15	9	4	3	2	12.125 .8
22	38994 234	2	3	4	7	6	5	5	9	5.125 .3
23	38995 235	7	0	2	2	3	18	15	27	9.250 .5
24	38996 236	27	15	27	12	4	3	3	18	13.625 .9
25	38997 237	27	15	15	6	6	12	12	9	12.750 .8
26	38998 238	18	6	7	6	6	5	2	6	7.000 .5
27	38999 239	5	3	6	5	6	4	7	9	5.625 .4
28	39000 240	7	4	4	2	3	2	3	2	3.375 .0
29	39001 241	4	7	5	2	3	3	15	5	5.500 .3
30	39002 242	22	7	7	5	4	5	9	5	8.000 .6
31	39003 243	12	15	14	18	9	5	5	7	11.125 .7

AUGUST 1965

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			38973	213	1	72.0	73.6	75.1	76.9	1	0	10.6	11.5	18.6																			
			38974	214	1	73.0	73.4	75.0	76.8	1	0	10.0	11.0	18.3																			
			38975	215	1	77.0	73.3	75.0	76.9	1	15	9.7	11.1	18.3																			
			38976	216	1	78.0	73.1	75.0	76.8	1	14	9.1	11.3	18.1																			
			38977	217	1	76.0	73.0	75.0	76.7	1	0	7.9	11.3	17.7																			
			38978	218	1	78.0	72.9	75.0	76.6	1	16	7.4	11.5	17.2																			
			38979	219	1	79.0	72.9	75.1	76.4	1	7	6.4	11.4	16.4																			
			38980	220	1	77.0	72.9	75.1	76.2	1	31	6.4	12.0	15.9																			
			38981	221	1	77.0	72.9	75.1	76.0	1	12	6.0	12.2	15.1																			
			38982	222	1	76.0	73.0	75.1	75.8	1	14	6.1	12.3	14.4																			
			38983	223	1	76.0	73.0	75.1	75.6	1	16	6.3	12.1	13.9																			
			38984	224	1	75.0	73.1	75.1	75.5	1	13	6.5	12.1	13.4																			
			38985	225	1	74.0	73.3	75.1	75.4	1	8	6.5	11.8	13.0																			
			38986	226	1	73.0	73.3	75.0	75.3	1	7	6.8	11.6	12.7																			
			38987	227	1	72.0	73.3	74.9	75.2	1	0	6.8	11.3	12.4																			
			38988	228	1	73.0	73.3	74.8	75.2	1	0	6.8	11.2	12.3																			
			38989	229	1	72.0	73.3	74.7	75.1	1	0	6.8	11.1	12.3																			
			38990	230	1	73.0	73.4	74.6	75.1	1	7	7.0	11.1	12.4																			
			38991	231	1	74.0	73.6	74.5	75.1	1	7	7.3	11.1	12.5																			
			38992	232	1	73.0	73.7	74.4	75.2	1	7	7.6	11.1	12.6																			
			38993	233	1	73.0	73.8	74.4	75.2	1	7	7.6	10.8	12.6																			
			38994	234	1	72.0	73.9	74.3	75.2	1	0	7.6	10.4	12.3																			
			38995	235	1	73.0	74.0	74.2	75.2	1	0	7.3	10.2	11.8																			
			38996	236	1	72.0	74.1	74.1	75.1	1	8	7.6	10.3	11.5																			
			38997	237	1	72.0	74.1	74.1	75.0	1	0	7.6	9.6	11.0																			
			38998	238	1	72.0	74.1	74.0	74.9	1	8	7.6	9.4	10.8																			
			38999	239	1	74.0	74.3	74.0	74.9	1	14	7.8	9.4	10.5																			
			39000	240	1	73.0	74.3	74.0	74.8	1	12	8.3	9.4	10.4																			
			39001	241	1	74.0	74.4	73.9	74.8	1	16	8.9	9.4	10.3																			
			39002	242	1	75.0	74.3	73.8	74.7	1	15	8.9	9.3	10.4																			
			39003	243	1	74.0	74.1	73.6	74.7	1	22	9.1	9.1	10.6																			

MONTHLY AVERAGE 74.3  
MONTHLY SMOOTHED 77.0

8.9  
16.4

SEPTEMBER 1965

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39004 244	1.000	2.333	2.333	2.333	.333	.667	1.333	2.000	1.667	11.667	1.458
2	39005 245	2.000	1.667	1.000	1.667	1.667	1.667	1.000	1.000	1.667	11.667	1.458
3	39006 246	.333	.333	.333	.333	.333	.333	1.000	1.000	3.000	6.667	.833
4	39007 247	3.000	2.667	2.667	2.667	3.667	4.000	2.667	3.333	2.333	24.333	3.042
5	39008 248	3.000	2.333	2.667	2.667	1.667	2.333	1.333	2.333	1.333	17.000	2.125
6	39009 249	2.000	1.667	1.333	1.333	1.333	2.333	3.667	2.667	2.333	17.333	2.167
7	39010 250	1.000	2.000	1.000	1.333	1.333	2.000	3.000	1.000	2.667	14.000	1.750
8	39011 251	1.667	1.333	.667	.667	.667	1.000	.667	.667	.333	7.000	.875
9	39012 252	.667	1.000	.333	.333	.333	.333	.667	.333	1.000	4.667	.583
10	39013 253	.333	.667	.333	.333	1.000	.333	.667	.667	1.000	5.000	.625
11	39014 254	.333	.333	.667	.667	1.000	.667	1.333	1.333	1.667	7.333	.917
12	39015 255	4.000	3.333	.667	.667	1.000	1.000	2.333	2.333	2.667	17.333	2.167
13	39016 256	3.667	1.667	.667	.667	.667	1.333	.667	.667	1.000	10.333	1.292
14	39017 257	1.333	.000	.000	.000	.667	.667	.333	1.000	1.333	5.333	.667
15	39018 258	1.667	1.667	2.333	2.333	1.333	1.667	4.333	3.667	4.333	21.000	2.425
16	39019 259	5.333	3.667	5.333	5.333	4.333	5.000	3.333	4.333	3.333	34.667	4.333
17	39020 260	3.333	3.333	4.000	4.000	3.000	3.000	3.667	3.333	2.667	26.333	3.292
18	39021 261	3.000	3.333	1.333	1.333	1.333	3.000	3.333	3.667	4.333	23.333	2.917
19	39022 262	2.333	3.333	4.000	4.000	2.667	3.333	3.667	3.667	2.000	25.000	3.125
20	39023 263	1.000	.667	.667	.667	1.667	1.333	1.333	1.333	2.000	11.333	1.417
21	39024 264	2.333	1.333	1.000	1.000	.667	.333	1.000	2.000	2.000	10.667	1.333
22	39025 265	1.000	1.667	2.000	2.000	1.000	.333	1.000	1.667	1.333	10.000	1.250
23	39026 266	1.667	1.333	1.667	1.667	2.000	3.000	3.667	2.333	2.000	17.667	2.208
24	39027 267	2.000	3.667	3.000	3.000	2.333	2.000	.333	1.667	2.333	17.333	2.167
25	39028 268	3.667	3.667	2.333	2.333	1.000	3.000	2.667	1.000	2.333	19.667	2.458
26	39029 269	1.667	3.333	2.333	2.333	2.000	2.333	1.667	1.333	3.000	17.667	2.208
27	39030 270	3.667	1.333	.000	.000	1.667	1.667	3.667	4.667	5.333	22.000	2.750
28	39031 271	5.667	4.667	4.333	4.333	3.333	3.000	2.333	4.000	2.667	30.000	3.750
29	39032 272	.667	1.000	2.333	2.333	1.667	1.333	2.667	1.333	2.333	13.333	1.667
30	39033 273	1.000	2.333	1.000	.333	.333	.333	.000	.000	.000	5.333	.667



SEPTEMBER 1965

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	DAILY 27-DAY	DAILY 27-DAY	54-DAY	54-DAY	81-DAY	81-DAY
1	39004 244	75.0	74.1	73.5	74.7	1	20	9.7	8.9	10.8	10.8
2	39005 245	76.0	74.0	73.5	74.7	1	20	10.0	8.7	11.1	11.1
3	39006 246	76.0	73.9	73.4	74.7	1	21	10.6	8.5	11.4	11.4
4	39007 247	76.0	73.9	73.4	74.7	1	22	10.2	8.3	11.7	11.7
5	39008 248	76.0	73.9	73.4	74.7	1	22	10.6	8.3	11.8	11.8
6	39009 249	77.0	74.0	73.5	74.7	1	19	10.8	8.4	11.8	11.8
7	39010 250	77.0	74.0	73.5	74.7	1	23	11.0	8.7	11.8	11.8
8	39011 251	76.0	74.1	73.6	74.8	1	22	11.4	8.9	11.8	11.8
9	39012 252	76.0	74.2	73.7	74.8	1	18	11.7	9.1	11.7	11.7
10	39013 253	75.0	74.3	73.8	74.8	1	15	12.0	9.4	11.8	11.8
11	39014 254	75.0	74.4	73.9	74.7	1	19	12.7	9.8	11.9	11.9
12	39015 255	75.0	74.4	73.9	74.7	1	17	13.4	10.1	12.0	12.0
13	39016 256	75.0	74.6	73.9	74.6	1	17	14.0	10.4	12.0	12.0
14	39017 257	75.0	74.6	74.0	74.6	1	8	14.0	10.5	12.1	12.1
15	39018 258	75.0	74.7	74.1	74.6	1	8	14.1	10.7	12.1	12.1
16	39019 259	73.0	74.7	74.2	74.5	1	16	14.4	11.0	12.2	12.2
17	39020 260	74.0	74.7	74.2	74.5	1	8	14.4	11.0	12.0	12.0
18	39021 261	73.0	74.7	74.3	74.4	1	9	14.8	11.2	11.9	11.9
19	39022 262	73.0	74.7	74.4	74.4	1	7	15.0	11.2	11.8	11.8
20	39023 263	73.0	74.8	74.4	74.4	1	0	14.7	11.2	11.6	11.6
21	39024 264	72.0	74.8	74.4	74.3	1	0	14.7	11.2	11.3	11.3
22	39025 265	71.0	74.7	74.4	74.3	1	0	14.4	11.0	11.1	11.1
23	39026 266	72.0	74.7	74.5	74.2	1	11	14.3	11.1	11.0	11.0
24	39027 267	76.0	74.8	74.6	74.2	1	17	14.5	11.4	11.1	11.1
25	39028 268	76.0	74.9	74.6	74.2	1	13	14.4	11.6	11.1	11.1
26	39029 269	77.0	74.9	74.6	74.2	1	17	14.5	11.7	11.0	11.0
27	39030 270	78.0	75.1	74.6	74.1	1	24	14.6	11.9	11.0	11.0
28	39031 271	80.0	75.3	74.7	74.1	1	23	14.7	12.3	10.8	10.8
29	39032 272	87.0	75.7	74.9	74.2	1	37	15.3	12.7	10.9	10.9
30	39033 273	39.0	76.1	75.0	74.3	1	50	16.4	13.5	11.1	11.1

MONTHLY AVERAGE 76.1  
MONTHLY SMOOTHED 78.1

16.8  
17.4

OCTOBER 1965

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39034 274	.000	.000	.000	.000	.333	.333	.333	.333	1.333	2.667	.333
2	39035 275	3.333	3.667	3.000	2.000	2.333	.333	3.000	3.000	4.000	24.333	3.042
3	39036 276	.333	1.000	1.000	1.000	.333	.333	.667	.667	.667	5.667	.708
4	39037 277	.333	.667	.000	.000	.000	.333	.333	.000	.000	1.333	.167
5	39038 278	2.667	1.667	2.000	1.000	3.333	1.667	.667	.667	1.000	14.000	1.750
6	39039 279	.333	.667	.333	.000	.333	.333	.667	.667	.000	2.667	.333
7	39040 280	.000	.000	.667	2.667	2.000	2.333	2.000	2.333	2.000	12.000	1.500
8	39041 281	4.667	3.000	3.000	1.333	2.667	1.333	2.667	2.667	3.333	22.000	2.750
9	39042 282	2.333	1.333	1.333	1.000	.667	.667	.000	.667	.333	7.667	.958
10	39043 283	.333	1.000	1.000	.333	.333	.333	.333	1.333	.667	5.333	.667
11	39044 284	.667	.333	.333	1.000	.667	1.000	1.000	1.000	1.000	6.000	.750
12	39045 285	2.000	2.333	1.333	1.667	1.333	1.667	2.000	2.000	.333	12.667	1.583
13	39046 286	2.000	2.667	2.000	1.000	1.667	1.667	1.333	3.000	1.000	14.667	1.833
14	39047 287	2.000	2.667	1.000	2.333	1.333	1.667	1.000	.000	1.000	11.333	1.417
15	39048 288	.667	.667	.333	.667	.000	.000	.000	.333	.000	2.667	.333
16	39049 289	.000	.000	.667	.333	.333	.333	.333	.667	.667	3.000	.375
17	39050 290	.000	.000	.000	.667	1.333	1.333	.333	.333	1.333	4.000	.500
18	39051 291	3.000	1.667	2.000	1.333	1.667	1.667	.333	.667	.000	10.667	1.333
19	39052 292	.000	.333	1.333	2.000	1.667	1.000	1.000	1.000	.333	7.667	.958
20	39053 293	.333	.000	.667	1.000	.000	.000	.000	1.000	1.333	4.333	.542
21	39054 294	.333	.333	1.000	.667	.000	.000	.000	.000	.000	2.333	.292
22	39055 295	2.000	1.000	2.000	3.333	1.333	4.000	4.333	2.333	2.333	20.333	2.542
23	39056 296	2.333	3.333	3.667	3.333	4.000	3.333	3.667	3.667	3.000	26.667	3.333
24	39057 297	3.667	3.333	2.333	1.667	3.000	3.667	3.000	2.333	2.333	23.000	2.875
25	39058 298	3.000	3.333	2.000	2.667	2.667	2.667	1.667	1.667	2.333	20.333	2.542
26	39059 299	4.000	1.667	1.333	1.000	.000	.000	.667	.667	2.000	11.333	1.417
27	39060 300	1.333	1.000	1.333	1.667	2.000	2.000	2.000	1.333	2.667	13.333	1.667
28	39061 301	4.000	2.667	1.333	4.000	.000	4.000	1.333	2.333	1.667	21.333	2.667
29	39062 302	2.000	1.333	.667	.000	.333	1.000	1.000	1.000	2.667	9.000	1.125
30	39063 303	2.000	2.667	3.000	2.333	1.000	1.000	1.667	2.333	1.000	16.000	2.000
31	39064 304	2.333	1.333	1.667	.333	.667	2.333	2.333	2.333	2.000	13.000	1.625

OCTOBER 1965

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

MAGNETIC  
CHARACTER

DAY MOD. DAY  
OF JULIAN OF

MONTH DAY YEAR

AP

AP

AP

AP

AP

AP

AP

AP

AP

AP

AP

AP

AP

AP

AP

AP

MONTH	DAY	YEAR	1	2	3	4	5	6	7	8	AP
1	39034	274	0	0	0	2	2	2	2	5	1.625
2	39035	275	16	22	15	7	9	15	15	27	16.000
3	39036	276	2	4	4	4	2	3	3	3	3.125
4	39037	277	2	3	0	0	0	2	0	0	.875
5	39038	278	12	6	7	4	18	6	3	4	7.500
6	39039	279	2	3	2	0	2	2	3	0	1.750
7	39040	280	0	0	3	12	7	9	7	9	5.875
8	39041	281	39	15	15	5	12	5	12	18	15.125
9	39042	282	9	5	5	4	3	0	3	2	3.875
10	39043	283	2	4	4	2	2	2	5	3	3.000
11	39044	284	3	2	2	4	3	4	4	4	3.250
12	39045	285	7	9	5	6	5	6	7	2	5.875
13	39046	286	7	12	7	4	6	5	15	4	7.500
14	39047	287	7	12	4	9	5	4	0	4	5.625
15	39048	288	3	3	2	3	0	0	2	0	1.625
16	39049	289	0	0	3	2	2	2	3	3	1.875
17	39050	290	0	0	0	3	5	2	2	5	2.125
18	39051	291	15	6	7	5	6	2	3	0	5.500
19	39052	292	0	2	5	7	6	4	4	2	3.750
20	39053	293	2	0	3	4	0	0	4	5	2.250
21	39054	294	2	2	4	3	0	0	0	0	1.375
22	39055	295	7	4	7	18	5	27	32	9	13.625
23	39056	296	9	18	22	18	27	18	22	15	18.625
24	39057	297	22	18	9	6	15	22	15	9	14.500
25	39058	298	15	18	7	12	12	12	6	9	11.375
26	39059	299	27	6	5	4	0	3	3	7	6.875
27	39060	300	5	4	5	6	7	7	5	12	6.375
28	39061	301	27	12	5	27	27	5	9	6	14.750
29	39062	302	7	5	3	0	2	4	4	12	4.625
30	39063	303	7	12	15	9	4	6	9	4	8.250
31	39064	304	9	5	6	2	3	9	9	7	6.250

OCTOBER 1965

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
		39034	274	1	92.0	76.7	75.3	74.5	1	52	17.5	13.9	11.4																					
		39035	275	1	93.0	77.3	75.6	74.7	1	63	19.0	14.8	11.9																					
		39036	276	1	96.0	78.0	76.0	75.0	1	60	20.5	15.6	12.5																					
		39037	277	1	97.0	78.7	76.4	75.3	1	62	22.0	16.5	13.1																					
		39038	278	1	92.0	79.3	76.7	75.5	1	55	23.2	17.3	13.7																					
		39039	279	1	85.0	79.6	76.9	75.7	1	39	24.0	17.9	14.1																					
		39040	280	1	84.0	79.9	77.1	75.8	1	27	24.4	18.2	14.4																					
		39041	281	1	83.0	80.2	77.3	76.0	1	7	24.0	18.4	14.5																					
		39042	282	1	83.0	80.5	77.5	76.1	1	8	23.6	18.5	14.6																					
		39043	283	1	80.0	80.7	77.6	76.2	1	13	23.5	18.7	14.8																					
		39044	284	1	76.0	80.7	77.7	76.3	1	8	23.5	18.8	14.9																					
		39045	285	1	75.0	80.7	77.7	76.3	1	9	23.5	18.6	15.0																					
		39046	286	1	76.0	80.9	77.8	76.4	1	8	23.2	18.8	15.1																					
		39047	287	1	75.0	80.9	77.8	76.5	1	7	23.2	18.8	15.1																					
		39048	288	1	74.0	80.9	77.8	76.5	1	0	22.9	18.8	15.1																					
		39049	289	1	72.0	80.9	77.8	76.5	1	7	22.9	18.9	15.1																					
		39050	290	1	73.0	80.9	77.8	76.6	1	0	22.9	18.8	15.1																					
		39051	291	1	72.0	80.9	77.8	76.6	1	0	22.9	18.8	15.1																					
		39052	292	1	72.0	80.9	77.8	76.6	1	10	23.2	18.8	15.1																					
		39053	293	1	73.0	81.0	77.8	76.6	1	12	23.3	18.8	15.1																					
		39054	294	1	73.0	80.9	77.8	76.7	1	15	23.2	18.9	15.3																					
		39055	295	1	76.0	80.9	77.9	76.7	1	26	23.7	19.0	15.6																					
		39056	296	1	79.0	80.9	77.9	76.7	1	23	23.9	19.2	15.7																					
		39057	297	1	76.0	80.9	78.0	76.7	1	16	23.6	19.1	15.6																					
		39058	298	1	78.0	80.8	78.0	76.7	1	24	23.6	19.1	16.1																					
		39059	299	1	78.0	80.4	78.1	76.7	1	17	22.9	19.1	16.1																					
		39060	300	1	78.0	80.0	78.1	76.7	1	17	21.7	19.0	16.2																					
		39061	301	1	77.0	79.5	78.1	76.7	1	9	20.1	18.8	15.9																					
		39062	302	1	77.0	78.9	78.1	76.7	1	8	18.0	18.5	15.9																					
		39063	303	1	76.0	78.1	78.1	76.7	1	8	16.1	18.3	15.8																					
		39064	304	1	78.0	77.4	78.1	76.7	1	14	14.3	18.1	15.8																					

MONTHLY AVERAGE 79.6  
MONTHLY SMOOTHED 79.8

20.1  
19.7



## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39065 305	.667	.333	1.000	.667	.667	1.667	2.000	2.000	9.000	1.125
2	39066 306	2.333	.667	.667	1.000	2.000	2.000	.667	1.667	11.000	1.375
3	39067 307	1.000	.000	.333	.333	.000	.000	.000	.333	2.000	.250
4	39068 308	3.000	2.000	1.667	3.333	2.000	1.667	.667	.000	14.333	1.792
5	39069 309	1.000	1.667	.667	3.333	2.333	3.333	3.333	4.667	19.333	2.417
6	39070 310	4.333	4.000	2.667	2.667	2.000	1.333	3.000	4.000	24.000	3.000
7	39071 311	3.667	1.667	2.333	3.333	.667	1.667	1.333	1.667	16.333	2.042
8	39072 312	1.000	.333	.667	.667	.667	1.333	2.000	1.667	8.333	1.042
9	39073 313	3.000	1.000	1.000	1.000	1.000	.333	.333	.333	8.000	1.000
10	39074 314	.000	.000	.000	.333	.000	.000	.333	.000	.667	.083
11	39075 315	.333	.000	.000	.333	.333	1.667	2.000	1.333	6.000	.750
12	39076 316	.000	.000	.000	.333	1.667	1.000	1.000	2.000	6.000	.750
13	39077 317	1.667	2.333	.667	1.000	1.000	.667	3.000	4.333	14.667	1.833
14	39078 318	.000	.333	1.333	.333	.333	1.333	1.333	.333	5.333	.667
15	39079 319	1.333	1.667	.000	.000	.000	.333	1.333	.000	4.667	.583
16	39080 320	.000	.667	.333	.000	.000	.333	.000	.333	1.667	.208
17	39081 321	.667	2.000	1.667	1.000	1.000	.333	.333	1.000	8.000	1.000
18	39082 322	1.667	3.000	.333	1.333	1.667	1.000	2.333	1.000	12.333	1.592
19	39083 323	1.000	2.333	3.667	2.667	2.667	2.333	2.333	1.667	18.667	2.333
20	39084 324	3.667	3.000	3.667	3.333	3.333	3.000	3.000	2.333	25.333	3.167
21	39085 325	3.333	3.000	3.000	1.667	2.000	2.000	1.333	1.333	17.667	2.208
22	39086 326	1.667	2.000	1.333	.667	.667	1.000	.667	1.000	9.000	1.125
23	39087 327	.667	.333	.000	.000	.000	.000	.667	1.000	2.667	.333
24	39088 328	1.000	1.000	1.667	.333	1.000	.667	1.667	1.333	8.667	1.083
25	39089 329	.667	.333	1.000	.333	.333	1.667	2.667	2.000	9.000	1.125
26	39090 330	.667	1.000	1.000	1.333	.667	1.667	.667	.667	7.667	.958
27	39091 331	1.333	.667	1.000	.333	.333	2.333	2.000	1.000	9.000	1.125
28	39092 332	1.000	.000	.000	.000	.667	.667	1.333	.333	4.000	.500
29	39093 333	.333	1.333	.333	.333	.333	1.333	1.000	1.333	6.333	.792
30	39094 334	.333	.333	.667	2.000	3.667	3.333	3.333	4.000	17.667	2.208

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

NOVEMBER 1965

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1- SOLAR FLUX (10.7CM OTTAWA)	1- RELATIVE ZURICH SUNSPOT NUMBER	1- RUNNING MEANS	1- RUNNING MEANS	1- DAILY 27-DAY	1- DAILY 54-DAY	1- DAILY 81-DAY		
1	39065	305	79.0	77.0	78.1	76.8	1	29	13.4	18.3	16.0
2	39066	306	80.0	76.8	78.2	76.9	1	28	13.0	18.5	16.2
3	39067	307	81.0	76.7	78.3	77.0	1	20	12.7	18.6	16.4
4	39068	308	80.0	76.6	78.4	77.0	1	13	12.9	18.4	16.5
5	39069	309	78.0	76.4	78.4	77.1	1	13	13.1	18.4	16.7
6	39070	310	81.0	76.4	78.6	77.2	1	29	13.7	18.6	17.1
7	39071	311	80.0	76.8	78.8	77.4	1	40	14.9	19.2	17.5
8	39072	312	81.0	77.0	78.9	77.5	1	46	16.3	19.9	18.0
9	39073	313	82.0	77.2	79.0	77.6	1	38	17.4	20.3	18.3
10	39074	314	85.0	77.6	79.2	77.7	1	41	18.6	20.9	18.8
11	39075	315	85.0	78.0	79.5	77.9	1	40	20.1	21.5	19.2
12	39076	316	81.0	78.3	79.6	78.0	1	26	20.8	21.8	19.6
13	39077	317	79.0	78.5	79.7	78.1	1	17	21.4	22.1	19.7
14	39078	318	76.0	78.7	79.8	78.1	1	16	22.0	22.4	19.9
15	39079	319	77.0	78.9	79.9	78.2	1	10	22.0	22.6	19.9
16	39080	320	74.0	78.9	79.9	78.2	1	9	21.9	22.6	19.8
17	39081	321	75.0	79.0	79.9	78.2	1	7	21.6	22.4	19.8
18	39082	322	75.0	78.9	79.9	78.2	1	0	20.7	22.2	19.6
19	39083	323	74.0	78.7	79.8	78.2	1	0	19.8	21.9	19.4
20	39084	324	73.0	78.6	79.7	78.2	1	0	19.2	21.4	19.1
21	39085	325	73.0	78.4	79.6	78.2	1	0	18.3	21.0	18.9
22	39086	326	72.0	78.2	79.3	78.1	1	7	18.0	20.4	18.7
23	39087	327	72.0	78.0	79.0	78.1	1	0	17.3	19.5	18.5
24	39088	328	72.0	77.8	78.6	78.0	1	7	17.3	18.7	18.3
25	39089	329	71.0	77.6	78.2	77.9	1	0	17.0	17.5	18.0
26	39090	330	72.0	77.4	77.8	77.9	1	7	16.9	16.5	17.9
27	39091	331	75.0	77.3	77.4	77.8	1	0	16.4	15.4	17.6
28	39092	332	78.0	77.3	77.1	77.8	1	8	15.6	14.5	17.4
29	39093	333	74.0	77.1	76.9	77.8	1	8	14.9	13.9	17.3
30	39094	334	76.0	76.9	76.8	77.8	1	15	14.7	13.7	17.3

MONTHLY AVERAGE 77.2  
MONTHLY SMOOTHED 81.7

15.8  
22.3

DECEMBER 1965

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM	AVG.
											KP	KP
1	39095 335	2.667	1.000	3.333	2.333	2.333	4.333	4.000	4.333	4.000	25.000	3.125
2	39096 336	3.000	3.333	1.667	2.333	2.333	1.333	2.000	2.333	1.333	17.333	2.167
3	39097 337	1.333	.000	.000	.333	.333	.333	.667	.333	1.667	4.667	.583
4	39098 338	2.000	1.333	1.667	2.000	3.000	3.333	3.333	3.333	2.333	19.000	2.375
5	39099 339	1.333	1.333	.333	.333	.667	.333	.333	.000	.667	5.000	.625
6	39100 340	1.000	.333	.667	.333	.333	.333	.667	1.000	1.000	5.333	.667
7	39101 341	1.333	1.000	2.333	1.000	.667	.667	.000	.000	.000	6.333	.792
8	39102 342	.333	.333	.667	.000	.000	.333	2.000	2.000	1.667	7.333	.917
9	39103 343	2.000	1.000	1.000	2.000	3.333	.333	.333	1.000	1.000	11.667	1.458
10	39104 344	1.667	.333	.333	.667	1.667	1.667	2.667	3.000	4.333	14.667	1.833
11	39105 345	2.667	3.333	2.333	1.333	1.333	1.000	2.667	2.333	3.000	18.667	2.333
12	39106 346	3.000	2.667	1.333	1.667	2.667	2.000	1.667	.667	.333	17.333	2.167
13	39107 347	2.333	2.667	2.333	1.000	1.000	2.000	1.667	.333	.333	13.000	1.625
14	39108 348	.000	1.000	.000	.333	.667	.667	.667	.333	1.333	4.333	.542
15	39109 349	.667	.333	.000	.333	.333	.333	.000	.000	.000	1.667	.208
16	39110 350	.667	.000	.000	.333	.333	.333	.000	.000	.000	1.333	.167
17	39111 351	.000	.000	.000	.667	.667	.333	1.000	.000	.667	2.667	.333
18	39112 352	.000	.667	2.667	2.333	2.333	2.667	3.667	3.667	2.667	18.333	2.292
19	39113 353	4.333	.667	1.667	.333	.333	.000	.667	1.667	1.667	11.000	1.375
20	39114 354	2.667	.333	.333	.000	.000	.333	1.000	2.000	2.000	8.667	1.083
21	39115 355	.333	1.000	.667	.333	.333	.333	1.667	.000	.000	4.333	.542
22	39116 356	.667	1.667	1.333	2.333	2.333	2.333	2.000	.667	2.000	13.000	1.625
23	39117 357	2.667	.667	.333	.333	.333	.000	.000	.333	.000	4.333	.542
24	39118 358	1.333	1.000	.333	.667	.667	1.333	1.000	2.667	4.667	13.000	1.625
25	39119 359	3.667	4.333	2.667	1.667	1.667	1.667	2.333	.667	2.000	19.000	2.375
26	39120 360	1.667	1.667	3.667	4.667	4.667	4.000	3.333	2.333	3.667	25.000	3.125
27	39121 361	1.667	2.333	2.000	3.000	2.667	1.667	2.667	3.000	3.000	18.667	2.333
28	39122 362	3.000	3.000	3.333	2.333	3.000	3.000	4.000	3.000	3.000	24.667	3.083
29	39123 363	1.333	1.667	1.000	2.000	1.667	1.667	3.333	2.000	2.333	15.333	1.917
30	39124 364	1.667	2.667	.667	1.667	1.667	2.333	1.667	1.000	.000	11.667	1.458
31	39125 365	.000	1.333	1.000	1.333	.667	.667	.667	1.000	.333	6.333	.792

DECEMBER 1965

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	9	10	11	12	
1	39095	335	12	4	9	9	32	27	32	27	19.000			1.2
2	39096	336	15	18	6	9	5	7	9	5	9.250			.6
3	39097	337	5	0	0	2	2	3	2	6	2.500			.2
4	39098	338	7	5	6	7	15	18	18	9	10.625			.8
5	39099	339	5	5	2	3	2	2	0	3	2.750			.0
6	39100	340	4	2	3	2	2	3	4	4	3.000			.0
7	39101	341	5	4	7	4	3	0	0	0	3.125			.1
8	39102	342	2	2	3	0	2	7	7	6	3.625			.3
9	39103	343	7	4	4	7	18	2	4	4	6.250			.4
10	39104	344	6	2	2	3	6	12	15	32	9.750			.7
11	39105	345	12	18	9	5	4	12	9	15	10.500			.8
12	39106	346	15	12	5	6	12	7	15	4	9.500			.7
13	39107	347	9	12	9	4	7	6	3	2	6.500			.3
14	39108	348	0	4	0	2	3	3	2	5	2.375			.2
15	39109	349	3	2	0	2	2	0	0	0	1.125			.0
16	39110	350	3	0	0	2	2	0	0	0	.875			.0
17	39111	351	0	0	0	3	2	4	0	3	1.500			.0
18	39112	352	0	3	12	9	12	22	22	12	11.500			1.1
19	39113	353	32	3	6	2	0	3	6	6	7.250			.6
20	39114	354	12	2	2	0	2	4	7	7	4.500			.4
21	39115	355	2	4	3	2	2	6	0	0	2.375			.1
22	39116	356	3	6	5	9	9	7	3	7	6.125			.5
23	39117	357	12	3	2	2	0	0	2	0	2.625			.0
24	39118	358	5	4	2	3	5	4	12	39	9.250			.8
25	39119	359	22	32	12	6	6	9	3	7	12.125			.7
26	39120	360	6	6	22	39	27	10	9	22	18.625			1.2
27	39121	361	6	9	7	15	9	6	12	15	9.875			.6
28	39122	362	15	15	18	9	15	27	15	15	16.125			.9
29	39123	363	5	6	4	7	6	18	7	9	7.750			.6
30	39124	364	6	12	3	6	9	6	4	0	5.750			.2
31	39125	365	0	5	4	5	3	3	4	2	3.250			.1

DECEMBER 1965

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO- JULIAN DAY	DAY	1- SOLAR FLUX (10.7CM OTTAWA)	1- RELATIVE ZURICH SUNSPOT NUMBER	1- RUNNING MEANS	1- RUNNING MEANS	1- DAILY 27-DAY	1- DAILY 27-DAY	1- DAILY 27-DAY	1- DAILY 27-DAY	1- DAILY 27-DAY	1- DAILY 27-DAY
1	39095	335	1	76.0	76.7	76.6	77.8	13	14.7	13.8	17.2	17.2
2	39096	336	1	76.0	76.7	76.5	77.9	8	14.5	13.8	17.1	17.1
3	39097	337	1	76.0	76.5	76.4	77.9	8	13.7	13.7	17.0	17.0
4	39098	338	1	75.0	76.1	76.4	77.9	8	12.6	13.7	17.0	17.0
5	39099	339	1	76.0	75.9	76.4	77.9	8	11.1	13.7	17.0	17.0
6	39100	340	1	77.0	75.7	76.5	77.9	8	10.0	13.7	16.9	16.9
7	39101	341	1	76.0	75.4	76.5	78.0	8	8.8	13.7	16.9	16.9
8	39102	342	1	78.0	75.1	76.6	78.0	15	7.9	14.0	17.0	17.0
9	39103	343	1	76.0	74.9	76.6	78.0	7	7.2	14.0	17.0	17.0
10	39104	344	1	76.0	74.9	76.7	78.1	7	6.8	14.1	17.0	17.0
11	39105	345	1	76.0	74.9	76.8	78.1	0	6.2	14.1	17.0	17.0
12	39106	346	1	77.0	74.9	76.9	78.2	0	5.9	13.9	17.0	17.0
13	39107	347	1	75.0	74.9	76.9	78.2	14	6.0	14.0	17.1	17.1
14	39108	348	1	75.0	74.9	76.9	78.2	0	5.8	13.7	16.9	16.9
15	39109	349	1	78.0	75.0	77.0	78.3	14	6.3	13.5	16.9	16.9
16	39110	350	1	79.0	75.2	77.0	78.3	22	7.1	13.5	16.9	16.9
17	39111	351	1	79.0	75.4	77.0	78.3	21	7.9	13.6	16.9	16.9
18	39112	352	1	79.0	75.6	77.0	78.3	20	8.6	13.5	16.9	16.9
19	39113	353	1	78.0	75.9	77.0	78.2	18	9.0	13.5	16.6	16.6
20	39114	354	1	75.0	76.0	77.0	78.0	15	9.6	13.5	16.2	16.2
21	39115	355	1	75.0	76.1	76.9	77.8	10	9.7	13.5	15.7	15.7
22	39116	356	1	73.0	76.1	76.9	77.5	11	10.1	13.5	15.0	15.0
23	39117	357	1	73.0	76.2	76.8	77.3	9	10.2	13.6	14.4	14.4
24	39118	358	1	72.0	76.1	76.7	77.0	8	10.5	13.4	13.7	13.7
25	39119	359	1	73.0	75.9	76.6	76.7	12	10.6	13.1	13.2	13.2
26	39120	360	1	78.0	76.0	76.6	76.6	23	11.2	13.0	13.0	13.0
27	39121	361	1	85.0	76.4	76.6	76.6	29	11.7	13.2	13.0	13.0
28	39122	362	1	85.0	76.7	76.7	76.7	64	13.6	14.1	13.7	13.7
29	39123	363	1	86.0	77.1	76.9	76.7	64	15.7	15.1	14.4	14.4
30	39124	364	1	83.0	77.3	76.9	76.7	44	17.0	15.4	14.8	14.8
31	39125	365	1	82.0	77.6	76.8	76.8	38	18.1	15.3	15.2	15.2

MONTHLY AVERAGE 77.4  
MONTHLY SMOOTHED 83.4

17.0  
24.5

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39126	1	333	1333	333	000	333	000	667	3667	458
2	39127	2	3667	2333	1333	1333	1667	2000	2333	16000	2000
3	39128	3	3000	1333	333	333	1667	1667	1667	10667	1333
4	39129	4	333	1667	1000	1667	3000	4667	3000	16000	2000
5	39130	5	2333	1000	667	333	667	333	1333	7000	875
6	39131	6	1000	000	000	333	333	333	1667	3667	458
7	39132	7	1333	1667	1000	1000	333	2667	2667	13000	1625
8	39133	8	3333	2000	2333	1667	1667	1000	1333	15000	1875
9	39134	9	3000	000	333	000	667	2333	2000	12333	1542
10	39135	10	1667	2667	2333	1667	1000	1667	1333	14333	1792
11	39136	11	1667	333	000	333	000	1000	667	4333	542
12	39137	12	1000	1000	333	667	333	333	000	3667	458
13	39138	13	1000	000	000	333	667	1000	333	3333	417
14	39139	14	667	000	1000	667	1333	667	1667	6667	833
15	39140	15	2000	2000	1000	667	1000	1667	667	9667	1208
16	39141	16	000	333	000	000	000	000	333	667	083
17	39142	17	000	1667	667	000	667	667	000	4000	500
18	39143	18	333	333	1333	1000	1333	2333	333	9333	1167
19	39144	19	000	667	1333	2000	1333	1333	000	6667	833
20	39145	20	2333	2333	2667	2333	3667	4000	2667	23667	2958
21	39146	21	3667	3000	3333	3333	4000	5000	3333	29000	3625
22	39147	22	3000	3333	4667	3667	5333	3667	3667	31000	3875
23	39148	23	4000	2000	2667	3000	3333	2667	2000	22333	2792
24	39149	24	2333	3000	2667	3000	2333	4000	2667	22333	2792
25	39150	25	2667	2333	2667	1667	3667	2000	1333	19000	2375
26	39151	26	667	1667	3000	2667	3333	3667	3667	21667	2708
27	39152	27	2333	2333	667	000	000	000	000	5333	667
28	39153	28	000	000	667	1333	1000	1333	4000	10667	1333
29	39154	29	1667	2000	1667	2000	1333	1000	333	12000	1500
30	39155	30	000	000	333	333	1667	1000	000	5000	625
31	39156	31	000	667	1000	333	333	1000	1000	4333	542

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	MAGNETIC CHARACTER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
			AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AP 9	AP 10	AP 11	AP 12	AP 13	AP 14	AP 15	AP 16	AP 17	AP 18	AP 19	AP 20	AP 21	AP 22	AP 23	AP 24	AP 25	AP 26	AP 27	AP 28	AP 29	AP 30	AP 31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1	39126	1	2	5	2	0	2	0	3	3	2.125	.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						



DAY	MOD.	DAY	1----	SOLAR FLUX(10.7CM OTTAWA)-----	1-----	RELATIVE ZURICH SUNSPOT NUMBER----
OF	OF	JULIAN	1-----	-----	1-----	-----
			1-----	-----	1-----	-----
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23
24	24	24	24	24	24	24
25	25	25	25	25	25	25
26	26	26	26	26	26	26
27	27	27	27	27	27	27
28	28	28	28	28	28	28
29	29	29	29	29	29	29
30	30	30	30	30	30	30
31	31	31	31	31	31	31
32	32	32	32	32	32	32
33	33	33	33	33	33	33
34	34	34	34	34	34	34
35	35	35	35	35	35	35
36	36	36	36	36	36	36
37	37	37	37	37	37	37
38	38	38	38	38	38	38
39	39	39	39	39	39	39
40	40	40	40	40	40	40
41	41	41	41	41	41	41
42	42	42	42	42	42	42
43	43	43	43	43	43	43
44	44	44	44	44	44	44
45	45	45	45	45	45	45
46	46	46	46	46	46	46
47	47	47	47	47	47	47
48	48	48	48	48	48	48
49	49	49	49	49	49	49
50	50	50	50	50	50	50
51	51	51	51	51	51	51
52	52	52	52	52	52	52
53	53	53	53	53	53	53
54	54	54	54	54	54	54
55	55	55	55	55	55	55
56	56	56	56	56	56	56
57	57	57	57	57	57	57
58	58	58	58	58	58	58
59	59	59	59	59	59	59
60	60	60	60	60	60	60
61	61	61	61	61	61	61
62	62	62	62	62	62	62
63	63	63	63	63	6	

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	SOLAR FLUX (10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER					
			1- DAILY	27-DAY MEANS	54-DAY MEANS	1- DAILY	27-DAY MEANS	54-DAY MEANS			
1	39126	1	82.0	77.8	76.9	76.9	1	22	18.6	14.9	15.3
2	39127	2	78.0	77.9	76.8	76.8	1	21	19.1	14.6	15.5
3	39128	3	78.0	77.9	76.6	76.6	1	20	19.6	14.2	15.7
4	39129	4	80.0	78.0	76.6	76.6	1	17	19.6	13.8	15.9
5	39130	5	80.0	78.1	76.5	76.5	1	11	19.8	13.5	15.9
6	39131	6	79.0	78.3	76.6	76.6	1	0	19.5	13.2	15.9
7	39132	7	80.0	78.4	76.6	76.6	1	7	19.8	13.0	16.0
8	39133	8	80.0	78.5	76.7	76.7	1	13	20.3	13.1	16.0
9	39134	9	80.0	78.7	76.8	76.8	1	13	20.2	13.1	16.1
10	39135	10	79.0	78.9	76.9	76.9	1	0	20.2	13.0	15.9
11	39136	11	80.0	78.9	77.0	77.0	1	0	19.7	13.0	15.6
12	39137	12	84.0	79.1	77.1	77.1	1	0	18.9	13.0	15.3
13	39138	13	87.0	79.4	77.4	77.4	1	17	18.7	13.3	15.3
14	39139	14	93.0	79.9	77.8	77.8	1	30	19.1	13.9	15.4
15	39140	15	101.0	80.8	78.3	78.3	1	40	19.9	14.5	15.6
16	39141	16	106.0	81.9	78.9	78.9	1	58	21.5	15.6	16.1
17	39142	17	101.0	82.9	79.5	79.5	1	51	23.0	16.4	16.7
18	39143	18	104.0	84.0	80.1	80.1	1	64	25.0	17.6	17.4
19	39144	19	108.0	85.3	80.8	80.8	1	68	27.2	18.7	18.1
20	39145	20	102.0	86.4	81.3	81.3	1	64	29.3	19.9	18.7
21	39146	21	98.0	87.4	81.6	81.6	1	58	31.0	20.8	19.1
22	39147	22	94.0	88.0	82.0	82.0	1	52	32.0	21.6	19.4
23	39148	23	93.0	88.3	82.3	82.3	1	42	32.5	22.1	19.6
24	39149	24	91.0	88.5	82.6	82.6	1	44	31.8	22.7	20.0
25	39150	25	88.0	88.6	82.8	82.8	1	37	30.8	23.2	20.3
26	39151	26	85.0	88.6	83.0	83.0	1	23	30.0	23.5	20.2
27	39152	27	82.0	88.6	83.1	83.1	1	17	29.2	23.7	20.0
28	39153	28	80.0	88.6	83.2	83.2	1	16	29.0	23.8	19.6
29	39154	29	80.0	88.6	83.2	83.2	1	21	29.0	24.1	19.4
30	39155	30	78.0	88.6	83.3	83.3	1	28	29.3	24.4	19.2
31	39156	31	77.0	88.5	83.3	83.3	1	19	29.4	24.5	19.0

MONTHLY AVERAGE	87.4
MONTHLY SMOOTHED	85.5

28.2  
27.7

# GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

403

04.

# PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY -OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER									
			AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AVG AP	
1	39157	32	5	4	4	3	4	4	2	2	3.000	.0
2	39158	33	0	2	4	4	4	4	4	4	3.250	.2
3	39159	34	4	2	7	6	22	7	22	18	11.000	.9
4	39160	35	12	9	12	12	9	7	18	22	12.625	1.0
5	39161	36	22	18	12	22	22	12	22	18	18.500	1.1
6	39162	37	12	18	12	4	7	2	6	6	8.375	.4
7	39163	38	6	6	4	4	2	3	5	6	4.500	.2
8	39164	39	2	2	2	2	12	6	5	3	4.250	.2
9	39165	40	4	4	3	2	3	2	3	5	3.250	.0
10	39166	41	5	6	6	6	6	6	7	15	7.125	.5
11	39167	42	12	9	9	7	18	12	12	15	11.750	.8
12	39168	43	15	9	5	5	2	0	0	2	4.750	.3
13	39169	44	12	9	5	4	4	7	4	2	5.875	.2
14	39170	45	0	2	2	4	3	5	2	0	2.250	.0
15	39171	46	2	0	0	4	6	2	9	7	3.750	.2
16	39172	47	7	7	7	3	3	2	3	5	4.625	.3
17	39173	48	2	2	3	3	7	4	7	6	4.250	.3
18	39174	49	5	6	5	4	0	2	3	2	3.375	.0
19	39175	50	5	5	9	6	12	32	32	15	14.500	1.0
20	39176	51	22	27	22	22	18	12	7	4	16.750	1.0
21	39177	52	4	4	7	6	4	3	2	4	4.250	.1
22	39178	53	4	0	4	7	22	27	15	32	13.875	.9
23	39179	54	12	49	48	39	12	18	32	18	28.375	1.4
24	39180	55	15	27	27	18	15	9	32	12	19.375	1.0
25	39181	56	22	12	7	4	9	15	6	7	10.250	.6
26	39182	57	3	0	3	4	4	2	4	3	2.750	.0
27	39183	58	4	6	4	6	3	2	2	2	3.625	.0
28	39184	59	2	0	2	3	0	3	2	0	1.500	.0

FEBRUARY 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

JAY OF	MOD. DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----1				1-----RELATIVE ZURICH SUNSPOT NUMBER-----1						
JULIAN	OF	1-----RUNNING MEANS-----1				1-----RUNNING MEANS-----1						
MONTH	DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY				
1	39157	32	1	79.0	88.5	83.3	80.5	1	7	29.2	24.5	18.7
2	39158	33	1	79.0	88.5	83.4	80.5	1	11	29.6	24.6	18.7
3	39159	34	1	79.0	88.4	83.4	80.6	1	21	30.1	25.0	18.7
4	39160	35	1	81.0	88.5	83.5	80.6	1	17	30.3	25.3	18.8
5	39161	36	1	82.0	88.6	83.6	80.7	1	19	30.5	25.4	18.9
6	39162	37	1	84.0	88.7	83.8	80.8	1	17	31.1	25.7	19.0
7	39163	38	1	85.0	88.9	83.9	81.0	1	17	31.8	25.7	19.3
8	39164	39	1	84.0	88.9	84.0	81.1	1	14	32.3	25.6	19.4
9	39165	40	1	85.0	88.9	84.1	81.2	1	12	32.1	25.4	19.6
10	39166	41	1	86.0	88.6	84.3	81.4	1	12	31.4	25.3	19.7
11	39167	42	1	85.0	88.0	84.4	81.5	1	14	30.5	25.2	19.8
12	39168	43	1	85.0	87.2	84.6	81.7	1	11	28.7	25.1	20.0
13	39169	44	1	86.0	86.7	84.8	81.9	1	18	27.5	25.3	20.1
14	39170	45	1	86.0	86.0	85.0	82.1	1	14	25.7	25.3	20.3
15	39171	46	1	85.0	85.1	85.2	82.2	1	16	23.7	25.5	20.4
16	39172	47	1	84.0	84.5	85.5	82.3	1	13	21.9	25.6	20.5
17	39173	48	1	84.0	84.0	85.7	82.4	1	19	20.4	25.7	20.7
18	39174	49	1	84.0	83.6	85.8	82.5	1	24	19.4	25.7	20.9
19	39175	50	1	83.0	83.2	85.7	82.6	1	29	18.9	25.7	21.0
20	39176	51	1	84.0	83.0	85.7	82.7	1	39	18.7	25.2	21.4
21	39177	52	1	87.0	92.9	85.7	82.9	1	42	18.9	24.8	21.8
22	39178	53	1	87.0	83.0	85.8	83.0	1	50	19.9	24.9	22.3
23	39179	54	1	84.0	83.1	85.9	83.1	1	55	21.3	25.3	22.9
24	39180	55	1	83.0	83.2	85.9	83.2	1	45	22.4	25.7	23.3
25	39181	56	1	80.0	83.2	85.9	83.2	1	39	23.0	26.0	23.7
26	39182	57	1	84.0	83.4	86.0	83.3	1	40	23.5	26.4	24.1
27	39183	58	1	84.0	83.7	86.1	83.4	1	36	24.1	26.7	24.4
28	39184	59	1	85.0	83.9	86.2	83.5	1	33	25.1	27.1	24.7

MONTHLY AVERAGE 83.7  
MONTHLY SMOOTHED 88.2

24.4  
31.3

MARCH 1966

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39185	60	.333	1.667	.333	.333	1.333	.667	.333	.333	.333	5.333	.667
2	39186	61	.667	.000	.000	.667	.333	.333	1.333	1.000	1.000	5.000	.625
3	39187	62	2.000	1.000	1.000	3.667	2.667	2.667	1.333	2.000	3.000	16.667	2.083
4	39188	63	3.333	2.000	1.000	1.000	1.000	1.000	1.333	1.333	3.667	14.667	1.833
5	39189	64	1.667	2.333	1.000	1.000	1.000	.333	.333	1.333	1.333	9.333	1.167
6	39190	65	1.667	.333	.333	.333	2.000	1.333	.667	1.000	1.000	8.333	1.042
7	39191	66	1.667	.667	.000	.667	.667	1.000	.333	.333	.000	4.667	.583
8	39192	67	.333	1.000	2.000	1.333	.667	.667	.333	1.000	.000	6.667	.833
9	39193	68	.000	.000	.000	1.333	.667	.667	.667	1.667	3.000	7.333	.917
10	39194	69	4.000	2.333	1.333	2.000	2.667	2.667	1.667	1.000	2.000	17.000	2.125
11	39195	70	2.667	2.333	.333	.000	.000	.333	.333	1.667	3.000	10.667	1.333
12	39196	71	2.667	.333	.333	1.333	2.000	2.000	1.333	1.000	.667	11.333	1.417
13	39197	72	1.667	.667	.667	1.333	.333	1.333	2.333	3.333	5.667	16.667	2.083
14	39198	73	6.000	7.333	6.667	5.667	5.000	5.000	4.667	2.333	1.667	39.333	4.917
15	39199	74	2.000	2.667	1.000	1.667	1.333	1.333	2.333	1.667	2.333	15.000	1.875
16	39200	75	3.000	2.667	1.000	1.333	1.333	1.333	.667	1.000	1.667	12.667	1.503
17	39201	76	1.333	.667	1.000	.667	.667	1.333	1.333	2.333	3.333	12.000	1.500
18	39202	77	2.333	1.667	.000	.667	.667	.333	.333	.667	.667	6.667	.833
19	39203	78	2.000	3.333	2.333	3.667	3.667	3.333	2.667	4.667	4.667	26.667	3.333
20	39204	79	4.000	2.333	1.667	2.000	2.000	2.000	2.333	2.000	1.667	18.000	2.250
21	39205	80	2.667	3.000	1.667	.667	.667	1.667	1.000	1.667	3.000	15.333	1.917
22	39206	81	3.000	1.667	1.667	1.667	.667	.667	1.667	1.333	2.667	13.333	1.667
23	39207	82	3.333	2.667	5.000	6.667	6.667	6.667	6.000	7.000	3.667	41.000	5.125
24	39208	83	1.000	.667	.000	.000	.000	.333	.333	.000	2.333	4.667	.583
25	39209	84	3.000	1.667	1.333	2.667	3.333	3.333	3.667	3.333	3.333	22.333	2.792
26	39210	85	2.000	2.333	2.000	3.333	3.333	5.667	4.000	3.333	2.333	25.000	3.125
27	39211	86	3.333	2.667	3.000	2.000	2.000	3.000	2.667	2.667	2.667	22.000	2.750
28	39212	87	3.000	1.667	3.667	4.333	4.333	4.667	5.000	7.000	4.667	34.000	4.250
29	39213	88	4.000	4.667	2.667	1.667	1.333	1.333	.667	.667	1.333	17.000	2.125
30	39214	89	1.667	2.667	.667	1.333	1.333	2.333	1.333	1.000	1.333	12.333	1.542
31	39215	90	2.000	.333	1.000	1.000	.667	.667	.333	.333	.333	6.000	.750

MARCH 1966

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	AP												MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	9	10	11	12	
1	39185	60	2	6	2	5	3	2	2	2	2	2	2	3.000
2	39186	61	3	0	0	3	2	5	4	4	4	4	4	2.625
3	39187	62	7	4	4	22	12	5	7	15	15	15	15	9.500
4	39188	63	10	7	4	4	4	4	4	5	22	22	22	8.625
5	39189	64	6	9	4	4	2	2	5	5	5	5	5	4.625
6	39190	65	6	2	2	7	5	3	4	4	4	4	4	4.125
7	39191	66	6	3	0	3	4	2	2	0	0	0	0	2.500
8	39192	67	2	4	7	5	3	2	4	0	0	0	0	3.375
9	39193	68	0	0	0	5	3	3	6	15	15	15	15	4.000
10	39194	69	27	9	5	7	12	6	4	7	7	7	7	9.625
11	39195	70	12	9	2	0	2	2	6	15	15	15	15	6.000
12	39196	71	12	2	5	7	7	5	4	3	3	3	3	5.625
13	39197	72	6	3	5	2	5	9	18	67	14.375	14.375	14.375	1.1
14	39198	73	80	154	111	67	48	39	9	6	64.250	64.250	64.250	1.6
15	39199	74	7	12	4	6	5	9	6	9	7.250	7.250	7.250	.5
16	39200	75	15	12	4	5	5	3	4	6	6.750	6.750	6.750	.3
17	39201	76	5	3	4	3	5	5	9	18	6.500	6.500	6.500	.4
18	39202	77	9	6	0	3	2	2	3	3	3.500	3.500	3.500	.1
19	39203	78	7	18	9	22	18	12	39	39	20.500	20.500	20.500	1.1
20	39204	79	27	9	6	7	7	9	7	6	9.750	9.750	9.750	.6
21	39205	80	12	15	6	3	6	4	6	15	8.375	8.375	8.375	.4
22	39206	81	15	6	6	3	3	6	5	12	7.000	7.000	7.000	.4
23	39207	82	18	12	48	111	111	60	132	22	66.750	66.750	66.750	1.7
24	39208	83	4	3	0	0	2	2	0	9	2.500	2.500	2.500	.1
25	39209	84	15	6	5	12	18	22	18	18	14.250	14.250	14.250	.9
26	39210	85	7	9	7	18	67	27	18	9	20.250	20.250	20.250	1.0
27	39211	86	18	12	15	7	15	12	12	12	12.675	12.675	12.675	.8
28	39212	87	15	6	22	32	39	48	132	39	41.625	41.625	41.625	1.5
29	39213	88	27	39	12	6	5	3	3	5	12.500	12.500	12.500	.6
30	39214	89	6	12	3	5	9	5	4	5	6.125	6.125	6.125	.4
31	39215	90	7	2	4	4	3	2	2	2	3.250	3.250	3.250	.0

MARCH 1966

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS---	1---RUNNING MEANS---	DAILY 27-DAY	DAILY 54-DAY	DAILY 81-DAY	DAILY 27-DAY	DAILY 54-DAY	DAILY 81-DAY	
1	39185	60	1	81.0	84.0	86.2	83.6	1	25	25.6	27.6	24.9
2	39186	61	1	78.0	83.9	86.2	83.6	1	11	25.2	27.7	25.0
3	39187	62	1	77.0	83.8	86.1	83.6	1	14	25.1	27.7	25.2
4	39188	63	1	76.0	83.6	86.1	83.6	1	20	25.1	27.8	25.3
5	39189	64	1	76.0	83.3	86.0	83.6	1	15	25.1	28.1	25.5
6	39190	65	1	76.0	82.9	85.9	83.6	1	15	25.0	28.4	25.5
7	39191	66	1	77.0	82.7	85.8	83.6	1	12	24.9	28.6	25.4
8	39192	67	1	77.0	82.4	85.6	83.5	1	11	24.9	28.5	25.2
9	39193	68	1	79.0	82.1	85.4	83.5	1	15	25.0	28.2	25.2
10	39194	69	1	79.0	81.9	84.9	83.6	1	14	25.0	27.7	25.1
11	39195	70	1	74.0	81.7	84.4	83.6	1	10	25.0	26.9	25.1
12	39196	71	1	79.0	81.4	84.0	83.7	1	0	24.3	25.9	25.0
13	39197	72	1	81.0	81.2	83.6	83.8	1	7	24.0	24.9	24.9
14	39198	73	1	82.0	81.1	83.1	83.9	1	0	23.4	23.6	24.8
15	39199	74	1	88.0	81.3	82.9	84.1	1	10	23.3	22.6	24.8
16	39200	75	1	93.0	81.6	82.8	84.3	1	26	23.6	22.0	25.0
17	39201	76	1	106.0	82.4	83.0	84.7	1	44	24.3	21.9	25.2
18	39202	77	1	110.0	83.4	83.3	85.0	1	53	25.2	22.1	25.5
19	39203	78	1	115.0	84.6	83.8	85.3	1	60	26.0	22.4	25.5
20	39204	79	1	111.0	85.4	84.2	85.6	1	54	26.4	22.7	25.4
21	39205	80	1	121.0	86.7	84.9	86.1	1	50	26.4	23.2	25.4
22	39206	81	1	105.0	87.5	85.3	86.4	1	52	26.3	23.8	25.6
23	39207	82	1	96.0	88.0	85.6	86.6	1	40	26.1	24.3	25.8
24	39208	83	1	93.0	88.4	85.8	86.8	1	31	25.9	24.4	26.0
25	39209	84	1	91.0	88.7	86.1	86.9	1	24	25.3	24.4	26.0
26	39210	85	1	85.0	88.7	86.2	87.0	1	18	24.6	24.4	26.0
27	39211	86	1	83.0	88.7	86.3	87.0	1	10	23.7	24.4	26.0
28	39212	87	1	87.0	88.9	86.4	87.1	1	12	23.3	24.4	26.2
29	39213	88	1	96.0	89.6	86.7	87.3	1	35	24.1	24.7	26.5
30	39214	89	1	99.0	90.4	87.1	87.5	1	44	25.3	25.2	26.9
31	39215	90	1	110.0	91.6	87.6	87.9	1	52	26.4	25.8	27.4

MONTHLY AVERAGE 89.9  
MONTHLY SMOOTHED 91.0

25.3  
34.5

APRIL 1966

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39216 91	.000	.667	.667	.667	1.667	4.000	4.000	3.667	5.333	20.000	2.500
2	39217 92	4.000	4.667	3.000	.667	1.667	.333	.333	1.667	1.000	16.667	2.083
3	39218 93	2.000	2.667	1.000	.667	.667	1.333	1.667	1.667	2.667	13.667	1.708
4	39219 94	2.667	2.667	2.000	1.000	1.333	1.667	1.667	1.333	2.333	15.000	1.875
5	39220 95	1.333	1.333	2.333	1.333	.333	.667	.667	2.000	2.333	11.667	1.458
6	39221 96	2.333	2.333	2.000	1.667	1.667	2.000	2.000	1.667	2.000	16.000	2.000
7	39222 97	4.667	3.333	1.333	1.000	.667	.667	.667	1.667	1.333	14.667	1.833
8	39223 98	3.000	3.333	2.000	2.000	2.000	1.333	1.667	1.667	3.000	18.333	2.292
9	39224 99	2.000	2.000	.667	1.333	1.333	1.667	1.667	1.000	.667	10.667	1.333
10	39225 100	1.000	.667	1.333	1.000	1.000	1.667	1.667	2.667	1.000	10.333	1.292
11	39226 101	.000	.333	.333	.333	.333	1.000	.333	.333	.333	3.000	.375
12	39227 102	.667	.333	1.333	1.667	1.667	.333	.667	.333	.667	6.000	.750
13	39228 103	1.667	3.000	2.000	3.333	4.000	3.000	3.000	3.333	3.000	23.333	2.917
14	39229 104	2.333	1.000	1.667	2.667	2.667	2.000	2.000	1.333	2.667	16.333	2.042
15	39230 105	3.000	1.333	2.000	.667	.667	.333	.333	.333	.000	8.000	1.000
16	39231 106	.333	.333	.333	.333	.333	1.000	1.000	.667	1.333	5.333	.667
17	39232 107	.333	1.000	1.667	1.333	1.333	1.000	.667	.667	1.667	8.333	1.042
18	39233 108	1.667	1.000	.333	.333	.333	.667	.667	.000	.333	5.000	.625
19	39234 109	.333	.000	.667	.667	.333	.667	.667	.000	.000	2.667	.333
20	39235 110	.000	.000	2.000	2.333	2.333	2.667	1.667	1.000	1.000	10.667	1.333
21	39236 111	2.333	1.333	1.000	1.000	1.000	.667	.667	1.667	2.000	10.667	1.333
22	39237 112	3.667	2.667	3.000	2.000	2.000	3.667	3.333	1.667	1.000	21.000	2.625
23	39238 113	2.000	4.000	3.667	3.667	1.000	1.667	2.333	.667	1.333	16.667	2.083
24	39239 114	2.333	1.667	1.333	1.333	1.667	1.000	1.000	2.667	1.333	13.000	1.625
25	39240 115	1.000	.000	.333	.333	.667	.333	.667	1.000	.667	4.667	.583
26	39241 116	.333	1.000	.667	.667	.333	.667	.667	1.000	1.000	5.667	.708
27	39242 117	.333	.000	.000	.333	.333	.000	.000	.667	.667	2.000	.250
28	39243 118	1.000	1.667	1.333	1.667	1.667	1.000	1.000	1.333	.667	9.000	1.125
29	39244 119	1.333	1.333	1.667	1.667	.667	1.667	1.000	3.000	1.333	12.000	1.500
30	39245 120	2.333	2.333	2.000	1.333	.333	2.667	3.000	2.667	2.667	19.000	2.375



### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER										MAGNETIC CHARACTER
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	
1	39216	91	0	3	3	6	27	27	22	56	18.000	1.1	
2	39217	92	27	39	15	6	2	2	6	4	12.625	.7	
3	39218	93	7	12	4	3	5	6	6	12	6.875	.4	
4	39219	94	12	12	7	4	5	6	5	9	7.500	.4	
5	39220	95	5	5	9	5	2	3	7	9	5.625	.2	
6	39221	96	9	9	7	6	7	7	6	7	7.250	.4	
7	39222	97	39	18	5	4	3	3	6	5	10.375	.6	
8	39223	98	15	18	7	7	7	5	6	15	10.000	.6	
9	39224	99	7	7	3	5	5	6	4	3	5.000	.2	
10	39225	100	4	3	5	4	4	6	12	4	5.250	.3	
11	39226	101	0	2	2	2	2	4	2	2	2.000	.1	
12	39227	102	3	2	5	6	2	3	2	3	3.250	.1	
13	39228	103	6	15	7	18	27	15	18	15	15.125	.9	
14	39229	104	9	4	6	12	12	7	5	12	8.375	.6	
15	39230	105	15	5	7	3	2	2	2	0	4.500	.2	
16	39231	106	2	2	2	2	4	4	3	5	3.000	.1	
17	39232	107	2	4	6	5	4	3	6	6	4.125	.1	
18	39233	108	6	4	2	2	3	3	0	2	2.750	.0	
19	39234	109	2	0	3	2	3	3	0	0	1.625	.0	
20	39235	110	0	0	7	9	12	6	4	4	5.250	.4	
21	39236	111	9	5	4	4	3	3	6	7	5.125	.3	
22	39237	112	22	12	15	7	22	18	6	4	13.250	.9	
23	39238	113	7	27	22	4	6	9	3	5	10.375	.6	
24	39239	114	9	6	5	6	4	4	12	5	6.375	.3	
25	39240	115	4	0	2	3	2	3	4	3	2.625	.1	
26	39241	116	2	4	3	2	3	3	4	4	3.125	.1	
27	39242	117	2	0	0	2	0	0	3	3	1.250	.0	
28	39243	118	4	6	5	6	2	4	5	3	4.375	.2	
29	39244	119	5	5	6	3	6	4	15	5	6.125	.4	
30	39245	120	9	9	7	5	12	15	12	12	10.125	.7	

APRIL 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. JULIAN DAY	DAY YEAR	1- DAILY	27-DAY MEANS	54-DAY MEANS	81-DAY MEANS	1- DAILY	27-DAY MEANS	54-DAY MEANS	81-DAY MEANS	RELATIVE ZURICH SUNSPOT NUMBER	
1	39216	91	1	106.0	92.7	89.0	38.2	1	64	28.3	26.7	28.2
2	39217	92	1	106.0	93.9	88.4	38.6	1	54	29.9	27.4	28.9
3	39218	93	1	102.0	94.8	88.7	88.8	1	74	32.1	28.5	29.8
4	39219	94	1	102.0	95.7	89.0	89.0	1	74	34.5	29.7	30.5
5	39220	95	1	101.0	96.5	89.3	89.1	1	59	36.1	30.6	30.9
6	39221	96	1	104.0	97.4	89.7	89.1	1	63	37.9	31.5	31.1
7	39222	97	1	102.0	98.3	90.0	89.1	1	70	40.1	32.6	31.3
8	39223	98	1	107.0	99.3	90.4	89.1	1	65	42.6	33.4	31.5
9	39224	99	1	100.0	100.0	90.6	89.1	1	49	44.1	34.1	31.3
10	39225	100	1	94.0	100.5	90.8	88.9	1	37	45.5	34.5	30.9
11	39226	101	1	93.0	100.7	91.0	88.8	1	29	46.2	34.8	30.5
12	39227	102	1	94.0	100.7	91.1	88.8	1	27	46.2	34.9	30.1
13	39228	103	1	92.0	100.2	91.3	88.7	1	24	45.5	34.9	29.7
14	39229	104	1	90.0	99.4	91.4	88.7	1	29	44.6	34.9	29.6
15	39230	105	1	95.0	98.7	91.6	88.7	1	29	43.4	34.7	29.4
16	39231	106	1	92.0	98.0	91.7	88.8	1	35	42.7	34.6	29.4
17	39232	107	1	94.0	97.0	91.9	88.9	1	40	42.4	34.4	29.6
18	39233	108	1	92.0	96.5	92.0	89.0	1	40	41.9	34.1	29.9
19	39234	109	1	88.0	96.2	92.1	89.1	1	30	41.6	33.9	30.0
20	39235	110	1	92.0	96.2	92.3	89.3	1	41	41.9	33.9	30.3
21	39236	111	1	90.0	96.1	92.4	89.4	1	44	42.7	34.0	30.5
22	39237	112	1	92.0	96.4	92.6	89.6	1	56	44.1	34.3	30.9
23	39238	113	1	97.0	96.9	92.8	89.8	1	69	46.3	35.0	31.7
24	39239	114	1	102.0	97.5	93.2	90.1	1	58	48.0	35.6	32.3
25	39240	115	1	102.0	97.7	93.6	90.4	1	61	48.9	36.5	32.8
26	39241	116	1	100.0	97.7	94.1	90.6	1	54	49.3	37.3	33.2
27	39242	117	1	95.0	97.2	94.4	90.8	1	40	48.9	37.6	33.5
28	39243	118	1	93.0	96.7	94.7	90.9	1	40	48.0	38.1	33.8
29	39244	119	1	93.0	96.2	95.0	91.0	1	48	47.6	38.7	34.1
30	39245	120	1	91.0	95.8	95.3	91.1	1	53	46.8	39.5	34.6

MONTHLY AVERAGE 96.7  
MONTHLY SMOOTHED 93.6

48.7  
37.4

MAY 1966

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN YEAR	KP											SUM KP	AVG. KP
		1	2	3	4	5	6	7	8	9	10	11		
1	39246	121	2.000	3.333	2.667	1.333	1.000	2.000	1.667	3.333	1.667	1.667	15.667	1.958
2	39247	122	2.333	2.333	3.000	2.333	2.333	2.667	3.333	2.667	3.333	2.667	21.000	2.625
3	39248	123	1.000	1.667	1.000	.333	.667	1.000	1.333	2.667	1.333	2.667	9.667	1.208
4	39249	124	3.333	3.000	2.667	3.000	2.000	1.333	2.333	3.000	2.333	3.000	20.667	2.583
5	39250	125	1.667	1.333	1.333	1.000	1.333	1.000	2.333	1.667	1.667	1.667	11.667	1.458
6	39251	126	2.000	3.000	3.000	1.667	.333	.667	1.000	1.333	1.333	1.333	13.000	1.625
7	39252	127	1.000	.333	.333	1.333	.333	.667	.667	2.333	.667	2.333	7.000	.875
8	39253	128	.667	.333	.000	1.333	2.333	2.333	1.667	1.667	1.667	1.667	10.333	1.292
9	39254	129	1.000	2.333	2.667	1.000	1.000	.667	.333	.333	.333	.333	9.333	1.167
10	39255	130	.000	.000	.333	.333	.333	.667	.667	.667	.667	.667	4.000	.500
11	39256	131	.333	.333	.667	1.333	3.333	1.333	3.000	4.000	4.000	4.000	14.333	1.792
12	39257	132	2.000	1.667	1.667	1.333	1.333	1.333	2.333	2.000	2.000	1.667	13.667	1.708
13	39258	133	2.667	1.667	2.333	2.333	1.000	2.667	.667	.667	.333	.333	13.667	1.708
14	39259	134	1.000	.333	1.000	.000	.333	.333	.667	.667	.667	.667	4.000	.500
15	39260	135	.667	.000	.333	.333	.333	.667	.333	.667	.667	.333	3.333	.417
16	39261	136	.667	.667	.667	.333	.333	1.667	2.333	2.333	1.667	2.333	9.333	1.167
17	39262	137	2.667	2.333	1.333	1.333	1.667	1.000	1.333	1.333	2.000	1.333	13.667	1.708
18	39263	138	2.667	1.667	1.000	1.000	1.000	.667	.667	.667	1.000	1.000	9.667	1.208
19	39264	139	1.333	.667	.333	.333	.333	.667	1.333	1.333	1.333	1.333	6.333	.792
20	39265	140	1.000	.667	1.333	1.667	1.667	2.000	3.000	3.000	3.000	3.000	14.333	1.792
21	39266	141	2.000	.667	1.000	1.000	1.000	1.000	.667	1.000	.667	1.000	9.333	1.042
22	39267	142	.333	.667	.667	.667	.667	2.000	1.000	1.000	1.333	1.333	8.333	1.042
23	39268	143	.667	.333	.333	.333	.667	.667	.667	.667	.333	.333	4.000	.500
24	39269	144	.000	.000	.667	.667	.333	.333	1.000	1.000	1.000	1.000	3.667	.458
25	39270	145	.667	.667	.667	.667	.667	1.000	1.000	.667	3.000	3.000	8.333	1.042
26	39271	146	1.667	2.000	4.000	7.000	7.000	6.000	7.000	7.000	6.667	4.1333	5.167	
27	39272	147	3.667	1.000	1.333	.333	.333	.333	.333	.333	1.000	1.000	8.333	1.042
28	39273	148	.667	.667	1.667	.333	1.333	1.333	1.333	1.667	2.667	2.667	10.333	1.292
29	39274	149	.333	.667	.667	.667	.667	1.000	1.667	1.667	1.000	1.000	6.667	.833
30	39275	150	.667	.000	1.000	1.667	1.667	1.333	2.667	2.667	3.000	3.000	12.000	1.500
31	39276	151	3.333	4.667	5.000	4.333	4.000	5.667	6.333	5.333	5.333	38.667	4.833	

# GEOMAGNETIC PLANETARY INDICES

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

MAY 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----1-----				1-----RELATIVE ZURICH SUNSPOT NUMBER-----1					
JULIAN OF YEAR		1	1-----RUNNING MEANS-----1				1-----RUNNING MEANS-----1					
DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY					
1	39246	121	1	90.0	95.4	95.5	91.1	1	50	45.9	40.2	35.1
2	39247	122	1	92.0	95.0	95.8	91.2	1	52	45.7	40.9	35.6
3	39248	123	1	92.0	94.6	96.0	91.3	1	57	45.4	41.7	36.1
4	39249	124	1	91.0	94.2	96.2	91.4	1	61	45.1	42.6	36.7
5	39250	125	1	87.0	93.4	96.4	91.4	1	43	44.3	43.4	37.0
6	39251	126	1	86.0	92.9	96.5	91.4	1	32	43.7	43.9	37.3
7	39252	127	1	88.0	92.7	96.6	91.4	1	29	43.4	44.4	37.4
8	39253	128	1	86.0	92.4	96.6	91.5	1	17	42.9	44.6	37.5
9	39254	129	1	85.0	92.1	96.4	91.5	1	8	42.2	44.2	37.3
10	39255	130	1	84.0	91.8	96.0	91.5	1	0	41.3	43.4	37.0
11	39256	131	1	86.0	91.7	95.6	91.5	1	14	40.8	42.7	36.9
12	39257	132	1	90.0	91.5	95.1	91.6	1	14	40.2	41.8	36.6
13	39258	133	1	91.0	91.4	94.7	91.6	1	23	39.8	41.3	36.3
14	39259	134	1	95.0	91.5	94.2	91.7	1	50	40.1	41.3	36.3
15	39260	135	1	97.0	91.7	94.1	91.9	1	46	40.4	41.1	36.2
16	39261	136	1	97.0	92.0	94.1	92.1	1	47	41.0	41.3	36.2
17	39262	137	1	96.0	92.1	94.2	92.3	1	35	40.8	41.4	36.2
18	39263	138	1	96.0	92.4	94.3	92.4	1	28	40.2	41.4	36.0
19	39264	139	1	104.0	92.8	94.6	92.7	1	35	39.4	41.7	36.0
20	39265	140	1	112.0	93.4	95.1	93.0	1	58	39.0	42.6	36.3
21	39266	141	1	120.0	94.0	95.8	93.5	1	80	39.8	43.9	37.0
22	39267	142	1	118.0	94.6	96.2	94.0	1	72	40.2	44.6	37.8
23	39268	143	1	111.0	95.0	96.4	94.4	1	68	40.7	45.0	38.4
24	39269	144	1	114.0	95.7	96.5	94.9	1	68	41.8	45.3	39.0
25	39270	145	1	112.0	96.4	96.6	95.3	1	64	42.7	45.3	39.6
26	39271	146	1	109.0	97.0	96.6	95.7	1	70	43.5	45.5	40.3
27	39272	147	1	105.0	97.6	96.7	96.0	1	66	44.0	45.4	41.0
28	39273	148	1	104.0	98.1	96.7	96.4	1	60	44.3	45.1	41.6
29	39274	149	1	103.0	98.5	96.8	96.7	1	42	44.0	44.8	41.9
30	39275	150	1	98.0	98.7	96.6	96.9	1	56	43.9	44.7	42.4
31	39276	151	1	102.0	99.1	96.6	97.2	1	58	43.8	44.5	43.0

MONTHLY AVERAGE 98.1  
MONTHLY SMOOTHED 96.3

45.3  
40.7

JUNE 1966

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG, KP
1	39277 152	5.333	2.667	3.000	1.000	.333	.333	.333	1.000	.667	14.000	1.750
2	39278 153	1.333	.667	1.333	3.333	3.333	3.333	3.333	2.000	1.667	17.000	2.125
3	39279 154	1.333	1.000	1.000	1.000	3.333	3.333	3.333	2.667	1.333	12.667	1.583
4	39280 155	1.667	2.000	.333	.333	.333	.333	1.667	.667	2.000	9.000	1.125
5	39281 156	2.333	1.667	1.333	1.667	1.667	.333	.333	1.000	.667	10.667	1.333
6	39282 157	1.667	1.333	.667	.667	.667	1.667	1.000	.333	1.000	8.333	1.042
7	39283 158	1.333	3.000	1.000	3.000	2.333	2.333	2.333	2.000	1.667	16.667	2.083
8	39284 159	.667	1.000	1.333	2.000	1.333	1.333	1.000	.333	.000	7.667	.958
9	39285 160	.000	.000	.000	1.333	1.000	1.000	1.000	.667	1.333	5.333	.667
10	39286 161	.667	.667	.667	.333	.333	.333	.333	.333	.333	3.667	.458
11	39287 162	.333	.333	.667	.667	.667	.333	.667	2.000	.667	5.667	.708
12	39288 163	1.000	2.333	1.667	1.333	3.000	1.333	1.333	1.000	2.333	14.000	1.750
13	39289 164	1.333	1.000	2.000	1.000	1.000	1.000	1.333	.667	1.333	9.667	1.208
14	39290 165	1.333	.667	1.667	1.333	.667	.667	.667	1.333	1.333	9.000	1.125
15	39291 166	.667	1.000	.667	1.333	1.000	1.000	.667	2.667	3.000	11.000	1.375
16	39292 167	3.000	1.667	1.000	1.000	1.000	1.000	1.333	1.333	1.667	12.000	1.500
17	39293 168	1.000	1.333	.000	.333	.333	.667	.667	1.333	2.000	7.333	.917
18	39294 169	.667	1.333	.333	.333	.333	.333	.333	1.000	.667	5.000	.625
19	39295 170	.333	.333	.333	.667	.667	2.667	1.667	2.667	1.333	10.000	1.250
20	39296 171	1.000	2.333	2.000	1.333	1.333	1.667	2.000	2.667	.667	13.667	1.708
21	39297 172	2.000	1.667	1.000	1.000	1.000	1.333	1.000	.667	.667	9.333	1.167
22	39298 173	.667	.667	.667	.667	.667	.667	.333	.333	1.000	5.000	.625
23	39299 174	2.000	.667	1.000	3.667	3.333	3.333	3.333	4.000	4.000	22.000	2.750
24	39300 175	.667	.667	1.333	2.000	2.000	2.333	3.000	5.333	4.333	19.667	2.458
25	39301 176	4.667	3.333	3.000	2.667	2.000	2.000	3.000	2.667	2.667	24.000	3.000
26	39302 177	.667	1.000	.333	1.667	2.333	2.333	2.667	1.667	1.667	12.000	1.500
27	39303 178	.333	.333	.333	.667	1.333	1.333	1.000	1.333	1.333	6.667	.833
28	39304 179	1.000	.667	.333	.333	.333	.333	2.333	2.333	2.000	9.333	1.167
29	39305 180	1.667	1.333	.667	.333	.333	1.667	1.000	2.333	2.333	11.333	1.417
30	39306 181	2.000	1.333	1.667	1.333	1.333	1.000	1.000	1.333	2.333	12.000	1.500

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	MAGNETIC CHARACTER											
			AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
1	39277	152	56	12	15	4	4	2	0	4	3	12.000	.9	
2	39278	153	5	3	5	18	18	19	18	7	6	10.000	.7	
3	39279	154	5	4	4	4	4	4	18	12	5	7.000	.6	
4	39280	155	6	7	2	2	6	2	6	3	7	4.375	.2	
5	39281	156	9	6	5	6	6	6	2	4	3	5.125	.4	
6	39282	157	3	5	3	3	6	6	4	2	4	4.125	.2	
7	39283	158	5	15	4	15	9	9	9	7	6	8.750	.6	
8	39284	159	3	4	5	7	4	4	4	2	0	3.750	.2	
9	39285	160	0	0	0	5	4	4	4	3	5	2.625	.2	
10	39286	161	3	3	3	2	2	2	2	2	2	2.375	.0	
11	39287	162	2	2	3	3	3	2	3	7	3	3.125	.2	
12	39288	163	4	9	6	5	15	5	5	4	9	7.125	.6	
13	39289	164	5	4	7	4	4	4	5	3	5	4.625	.2	
14	39290	165	5	3	6	5	3	3	3	5	5	4.375	.2	
15	39291	166	3	4	3	5	4	4	3	12	15	6.125	.3	
16	39292	167	15	6	4	4	4	4	5	5	6	6.125	.4	
17	39293	168	4	5	0	2	2	3	3	5	7	3.625	.2	
18	39294	169	3	5	2	2	2	2	2	4	3	2.875	.1	
19	39295	170	2	2	2	3	12	6	6	12	5	5.500	.5	
20	39296	171	4	9	7	5	6	7	7	12	3	6.625	.4	
21	39297	172	7	6	4	4	4	5	4	3	3	4.500	.2	
22	39298	173	3	3	3	3	3	3	2	2	4	2.875	.1	
23	39299	174	7	3	4	22	18	18	18	27	27	15.750	1.0	
24	39300	175	3	3	5	7	7	7	15	56	32	16.250	1.0	
25	39301	176	39	18	15	12	7	7	15	12	12	16.250	1.0	
26	39302	177	3	4	2	6	9	12	6	6	6	6.000	.4	
27	39303	178	2	2	2	3	5	4	4	5	5	3.500	.1	
28	39304	179	4	3	2	2	2	2	9	9	7	4.750	.3	
29	39305	180	6	5	3	2	6	4	4	9	9	5.500	.3	
30	39306	181	7	5	6	3	4	4	4	5	7	5.625	.5	

JUNE 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1				
		DAILY 27-DAY	DAILY 81-DAY	DAILY 27-DAY	DAILY 81-DAY				
1	39277 152	101.0	99.6	96.5	97.5	71	44.9	44.5	43.9
2	39278 153	101.0	100.2	96.6	97.7	74	46.4	45.0	44.7
3	39279 154	99.0	100.6	96.6	97.9	41	46.9	45.1	45.2
4	39280 155	99.0	101.1	96.8	98.1	60	48.4	45.7	45.9
5	39281 156	98.0	101.6	96.8	98.1	43	49.9	46.1	46.1
6	39282 157	98.0	102.1	96.9	98.0	47	51.7	46.5	46.2
7	39283 158	94.0	102.4	97.0	97.8	40	52.6	46.7	46.0
8	39284 159	96.0	102.6	97.0	97.6	35	53.4	46.8	45.7
9	39285 160	95.0	102.7	97.1	97.4	33	53.8	46.3	45.4
10	39286 161	93.0	102.7	97.1	97.0	25	52.9	46.5	45.1
11	39287 162	93.0	102.5	97.1	96.9	43	52.7	46.6	45.0
12	39288 163	93.0	102.4	97.2	96.9	34	52.3	46.6	44.9
13	39289 164	93.0	102.3	97.2	96.9	34	52.2	46.5	45.0
14	39290 165	93.0	102.1	97.3	96.9	31	52.3	46.3	45.1
15	39291 166	91.0	101.7	97.2	97.0	22	51.9	45.6	45.1
16	39292 167	94.0	101.0	97.2	97.1	40	51.2	45.1	45.5
17	39293 168	96.0	100.1	97.1	97.2	46	49.9	44.9	45.9
18	39294 169	95.0	99.3	96.9	97.2	40	48.7	44.5	46.0
19	39295 170	93.0	98.6	96.8	97.1	36	47.6	44.1	45.9
20	39296 171	71.0	97.7	96.7	96.9	42	46.6	44.2	45.7
21	39297 172	90.0	96.9	96.7	96.7	33	45.4	44.1	45.4
22	39298 173	93.0	96.3	96.7	96.5	35	44.1	43.8	45.1
23	39299 174	96.0	96.0	96.8	96.5	62	44.0	44.0	44.9
24	39300 175	100.0	95.9	97.0	96.4	66	44.2	44.3	44.8
25	39301 176	101.0	95.8	97.1	96.4	80	45.6	44.8	45.1
26	39302 177	102.0	95.9	97.3	96.4	82	46.6	45.3	45.3
27	39303 178	97.0	95.7	97.4	96.3	76	47.3	45.5	45.4
28	39304 179	96.0	95.6	97.6	96.2	52	46.6	45.7	45.2
29	39305 180	90.0	95.4	97.8	96.2	47	45.6	46.0	45.2
30	39306 181	77.0	95.4	98.0	96.2	55	46.1	46.5	45.4

MONTHLY AVERAGE 95.9  
MONTHLY SMOOTHED 99.7

47.7  
44.6



JULY 1966

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39307 182	2.000	1.667	1.333	1.333	1.667	1.333	1.333	1.333	1.000	11.667	1.458
2	39308 183	1.333	.333	1.333	1.333	.333	.333	1.000	1.333	2.333	8.333	1.042
3	39309 184	1.667	2.000	.667	.667	1.000	1.333	.667	1.000	1.000	9.333	1.167
4	39310 185	1.000	.667	.667	.667	2.000	3.000	4.333	.667	3.667	16.000	2.000
5	39311 186	2.333	2.333	2.333	1.333	1.000	.667	1.000	2.000	.333	11.000	1.375
6	39312 187	1.333	1.333	1.333	1.333	1.667	1.333	.667	1.333	1.000	10.000	1.250
7	39313 188	1.667	.667	.667	.333	.667	.333	.333	1.000	1.667	6.667	.833
8	39314 189	2.000	2.667	4.333	4.333	3.667	2.333	3.000	3.000	5.667	26.667	3.333
9	39315 190	4.667	6.000	6.000	6.000	3.667	3.000	3.667	3.000	2.667	32.667	4.083
10	39316 191	3.667	4.333	5.000	5.000	5.000	3.667	2.000	2.333	2.333	28.333	3.542
11	39317 192	2.667	2.667	2.333	2.333	1.000	.667	1.333	1.333	3.333	15.333	1.917
12	39318 193	3.000	4.333	4.000	4.000	3.333	3.000	1.000	1.667	1.000	21.333	2.667
13	39319 194	1.000	1.000	.667	.667	.333	.667	.667	.667	.667	5.667	.708
14	39320 195	.667	.667	1.333	1.333	1.333	.667	1.000	1.667	.333	7.667	.958
15	39321 196	.333	.333	.333	.333	.667	1.000	2.000	2.333	4.333	11.333	1.417
16	39322 197	1.333	1.333	1.333	1.333	.667	.667	1.667	2.000	2.667	11.667	1.458
17	39323 198	3.333	3.333	3.000	3.000	2.667	1.000	1.667	2.000	2.000	19.000	2.375
18	39324 199	.333	1.333	1.333	1.333	1.667	1.000	1.333	1.333	.333	8.667	1.083
19	39325 200	.333	1.333	2.000	2.000	1.000	1.000	2.000	1.333	.667	9.667	1.208
20	39326 201	1.333	1.333	2.667	2.667	1.333	.333	.667	1.000	2.333	11.000	1.375
21	39327 202	3.667	3.333	2.667	2.667	2.333	2.333	2.667	3.667	2.333	23.000	2.875
22	39328 203	4.000	1.667	1.667	.667	.667	1.000	2.000	2.333	1.667	14.000	1.750
23	39329 204	1.333	1.667	1.333	1.333	2.000	1.667	2.333	1.333	1.000	12.667	1.583
24	39330 205	3.000	2.000	.667	.667	1.333	1.667	1.000	.333	1.000	11.000	1.375
25	39331 206	1.000	.667	.667	.667	.667	1.000	.667	1.000	1.000	6.667	.833
26	39332 207	1.667	1.333	1.333	1.333	1.333	1.333	1.667	2.000	2.333	13.000	1.625
27	39333 208	2.000	1.000	3.000	3.000	2.000	4.000	3.667	.667	1.000	17.333	2.167
28	39334 209	2.667	3.333	2.667	2.667	2.000	2.333	2.000	1.333	1.667	18.000	2.250
29	39335 210	3.000	1.333	1.333	1.333	1.333	.333	.667	1.333	.667	10.000	1.250
30	39336 211	.667	2.333	2.667	2.667	1.000	.667	.667	1.333	1.333	10.667	1.333
31	39337 212	1.000	.667	1.667	1.667	1.333	1.000	2.000	1.333	1.667	10.667	1.333

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	MAGNETIC CHARACTER											
			AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AP 9	AP 10	AP 11	AP 12
1	39307	182	7	6	5	6	5	5	5	5	4	5	375	3
2	39308	183	5	2	5	2	2	4	4	5	9	5	250	2
3	39309	184	6	7	3	4	5	3	3	4	4	4	500	2
4	39310	185	4	3	3	7	15	32	3	3	22	11	125	9
5	39311	186	9	9	5	4	3	4	7	7	2	5	375	2
6	39312	187	5	5	5	6	5	5	3	5	4	4	750	2
7	39313	188	6	3	2	3	2	2	2	4	6	3	500	2
8	39314	189	7	12	32	22	9	15	15	15	67	22	375	1.3
9	39315	190	39	80	80	22	15	22	15	12	12	35	625	1.4
10	39316	191	22	32	48	48	22	7	9	9	9	24	625	1.3
11	39317	192	12	12	9	4	3	5	5	5	18	8	500	6
12	39318	193	15	32	27	18	15	4	6	3	4	15	125	9
13	39319	194	4	4	3	2	3	3	3	3	3	3	125	0
14	39320	195	3	3	5	5	3	4	6	2	3	3	875	2
15	39321	196	2	2	2	3	4	7	9	9	32	7	625	6
16	39322	197	5	5	5	3	3	4	6	7	12	5	750	4
17	39323	198	18	18	15	12	4	6	7	7	7	10	875	8
18	39324	199	2	5	5	6	4	5	5	5	2	4	250	2
19	39325	200	2	5	7	4	4	4	7	5	3	4	625	3
20	39326	201	5	5	12	5	2	3	3	4	9	5	625	4
21	39327	202	22	18	12	9	9	12	22	9	9	14	125	9
22	39328	203	27	6	3	3	4	7	9	6	6	8	125	6
23	39329	204	5	6	5	7	6	9	5	5	4	5	875	4
24	39330	205	15	7	3	5	6	4	2	4	4	5	750	3
25	39331	206	4	3	3	3	4	3	4	4	4	3	500	1
26	39332	207	6	5	5	5	5	6	7	9	9	6	000	4
27	39333	208	7	4	15	7	27	22	3	4	4	11	125	9
28	39334	209	12	18	12	7	9	7	5	6	6	9	500	7
29	39335	210	15	5	5	2	3	3	5	3	5	5	375	4
30	39336	211	3	9	12	4	4	2	5	5	5	5	500	4
31	39337	212	4	3	3	5	4	4	7	5	6	5	000	4

JULY 1966

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY	81-DAY	81-DAY
1	39307 182	1 76.0	95.3	98.2	96.3	1 49	45.7	47.1	45.7	47.1	45.7
2	39308 183	1 75.0	95.1	98.4	96.3	1 49	45.7	47.8	45.7	47.8	46.0
3	39309 184	1 96.0	95.1	98.6	96.3	1 54	46.0	48.3	46.0	48.3	46.3
4	39310 185	1 101.0	95.3	98.9	96.5	1 53	46.4	49.5	46.4	49.5	46.6
5	39311 186	1 101.0	95.5	99.1	96.5	1 48	46.9	50.2	46.9	50.2	46.9
6	39312 187	1 106.0	95.9	99.3	96.7	1 46	47.4	50.6	47.4	50.6	47.0
7	39313 188	1 108.0	96.5	99.6	96.9	1 58	48.6	50.7	48.6	50.7	47.2
8	39314 189	1 110.0	97.1	99.8	97.1	1 68	49.6	51.1	49.6	51.1	47.6
9	39315 190	1 104.0	97.5	99.9	97.3	1 60	50.5	51.4	50.5	51.4	47.9
10	39316 191	1 104.0	97.9	100.1	97.4	1 65	51.7	51.9	51.7	51.9	48.2
11	39317 192	1 105.0	98.4	100.3	97.6	1 52	52.4	52.4	52.4	52.4	48.3
12	39318 193	1 99.0	98.7	100.2	97.7	1 62	53.9	52.9	53.9	52.9	48.4
13	39319 194	1 97.0	98.8	99.9	97.7	1 56	54.5	52.9	54.5	52.9	48.2
14	39320 195	1 96.0	98.8	99.4	97.6	1 42	54.4	52.1	54.4	52.1	48.0
15	39321 196	1 97.0	98.9	99.1	97.6	1 34	54.1	51.4	54.1	51.4	47.7
16	39322 197	1 99.0	99.1	98.8	97.6	1 48	54.6	51.1	54.6	51.1	47.6
17	39323 198	1 98.0	99.3	98.5	97.6	1 42	54.6	50.6	54.6	50.6	47.7
18	39324 199	1 98.0	99.6	98.3	97.7	1 49	55.2	50.3	55.2	50.3	47.8
19	39325 200	1 98.0	99.8	98.1	97.7	1 38	55.3	49.7	55.3	49.7	47.6
20	39326 201	1 98.0	99.9	97.9	97.8	1 65	55.4	49.7	55.4	49.7	47.8
21	39327 202	1 100.0	99.9	97.9	97.9	1 55	55.0	49.6	55.0	49.6	47.9
22	39328 203	1 103.0	100.0	97.9	98.1	1 66	54.5	50.1	54.5	50.1	48.0
23	39329 204	1 111.0	100.3	98.1	98.3	1 56	53.5	50.1	53.5	50.1	48.0
24	39330 205	1 116.0	101.0	98.4	98.6	1 70	53.3	50.3	53.3	50.3	48.1
25	39331 206	1 122.0	101.9	98.8	99.0	1 67	53.9	50.2	53.9	50.2	48.4
26	39332 207	1 123.0	102.9	99.2	99.5	1 74	54.9	50.2	54.9	50.2	48.9
27	39333 208	1 120.0	103.7	99.6	99.9	1 65	55.2	50.6	55.2	50.6	49.4
28	39334 209	1 120.0	104.6	99.9	100.3	1 70	56.0	50.3	56.0	50.3	50.0
29	39335 210	1 128.0	105.9	100.5	100.9	1 76	57.0	51.4	57.0	51.4	50.9
30	39336 211	1 124.0	106.9	101.0	101.3	1 59	57.2	51.6	57.2	51.6	51.6
31	39337 212	1 121.0	107.6	101.5	101.4	1 62	57.5	52.0	57.5	52.0	52.2

MONTHLY AVERAGE 106.3  
MONTHLY SMOOTHED 104.156.7  
50.3

AUGUST 1966

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39330 213	3.000	2.000	1.000	.667	1.333	1.000	1.000	1.000	1.667	11.667	1.458
2	39339 214	.667	.333	.000	.000	.000	.000	.000	.000	.333	1.333	.167
3	39340 215	1.000	2.000	1.667	2.333	2.667	2.333	1.000	1.000	1.000	14.000	1.750
4	39341 216	.667	.667	1.667	2.667	2.667	2.333	2.667	1.333	3.000	15.000	1.875
5	39342 217	1.333	1.333	3.667	2.333	3.333	2.667	1.000	2.000	2.000	17.667	2.208
6	39343 218	2.333	1.667	1.667	1.667	1.000	1.667	1.667	1.667	1.667	13.333	1.667
7	39344 219	2.333	2.000	.667	1.000	.667	.333	.667	.667	1.667	9.333	1.167
8	39345 220	.667	.333	1.333	1.333	1.000	1.333	.667	2.000	2.667	10.000	1.250
9	39346 221	2.333	1.333	2.000	1.000	1.333	2.333	2.333	3.667	2.333	16.333	2.042
10	39347 222	3.667	2.333	1.333	3.000	4.000	2.333	2.333	1.333	2.000	20.000	2.500
11	39348 223	1.000	2.667	3.333	2.333	3.333	3.333	3.333	2.667	3.667	22.333	2.792
12	39349 224	3.667	3.333	3.333	3.333	2.667	1.333	2.667	2.667	2.000	22.333	2.792
13	39350 225	2.333	2.667	1.000	1.000	.667	1.000	1.000	1.000	1.333	11.000	1.375
14	39351 226	3.000	3.000	2.333	2.333	1.000	1.000	1.000	2.000	.333	15.667	1.958
15	39352 227	.667	1.333	1.667	1.667	1.333	.667	.333	1.000	1.667	10.000	1.250
16	39353 228	2.000	.667	1.667	.667	.667	.667	.333	.333	.667	7.000	.875
17	39354 229	.667	1.000	.000	.000	.000	.667	1.000	1.333	.000	4.667	.583
18	39355 230	.667	.333	1.333	3.000	3.333	3.333	3.333	3.333	1.000	16.333	2.042
19	39356 231	3.000	3.667	2.000	4.000	4.667	3.000	3.667	2.667	2.667	26.667	3.333
20	39357 232	2.667	1.667	2.667	1.000	.667	1.333	1.000	1.000	2.000	13.000	1.625
21	39358 233	2.333	1.333	1.000	.667	.667	1.333	1.333	1.667	1.667	10.333	1.292
22	39359 234	1.000	.667	.000	.000	.000	.667	2.000	1.333	2.333	8.000	1.000
23	39360 235	3.333	2.667	2.667	4.000	4.000	3.667	4.333	4.000	2.333	28.667	3.583
24	39361 236	4.000	1.667	2.333	3.667	3.667	2.333	3.000	3.333	3.333	24.000	3.000
25	39362 237	2.667	1.667	1.667	2.000	2.000	2.000	1.667	2.667	2.667	17.000	2.125
26	39363 238	2.000	2.667	1.667	1.000	.667	.667	.333	1.333	1.667	11.333	1.417
27	39364 239	1.667	2.000	1.333	2.000	1.333	1.333	1.333	.667	.667	11.000	1.375
28	39365 240	.667	.000	1.000	.667	.667	1.000	1.667	1.667	2.000	8.667	1.083
29	39366 241	.667	.333	.333	1.000	4.000	4.000	2.000	2.667	5.000	16.000	2.000
30	39367 242	6.667	5.000	3.000	5.000	5.000	5.333	5.667	7.333	7.333	45.333	5.667
31	39368 243	5.333	2.667	3.000	2.000	4.333	3.667	3.667	3.667	3.000	27.667	3.458

AUGUST 1966

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY YEAR	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	AP	AP	AP	AP	
1	39338 213	15	7	4	3	5	4	4	6	6.000				.4
2	39339 214	3	2	0	0	0	0	0	2	.875				.0
3	39340 215	4	7	6	9	12	9	4	4	6.875				.7
4	39341 216	3	3	6	12	9	12	5	15	8.125				.6
5	39342 217	5	5	22	9	18	12	4	7	10.250				.7
6	39343 218	9	6	6	6	4	6	6	6	6.125				.4
7	39344 219	9	7	3	4	3	2	3	6	4.625				.3
8	39345 220	3	2	5	5	4	3	7	12	5.125				.4
9	39346 221	9	5	7	4	5	9	22	9	8.750				.7
10	39347 222	22	9	5	15	27	9	5	7	12.375				.7
11	39348 223	4	12	18	9	18	18	12	22	14.125				1.0
12	39349 224	22	18	18	18	12	5	12	7	14.000				1.0
13	39350 225	9	12	4	4	3	4	4	5	5.625				.3
14	39351 226	15	15	15	9	4	4	7	2	8.875				.5
15	39352 227	3	5	6	6	5	3	4	6	4.750				.2
16	39353 228	7	3	6	3	3	2	2	3	3.625				.1
17	39354 229	3	4	0	0	3	4	5	0	2.375				.1
18	39355 230	3	2	5	15	18	16	18	4	10.375				.6
19	39356 231	15	22	7	27	39	15	22	12	19.875				1.1
20	39357 232	12	6	12	4	3	5	4	7	6.625				.4
21	39358 233	9	5	4	3	3	5	5	6	5.000				.2
22	39359 234	4	3	0	0	3	7	5	9	3.875				.2
23	39360 235	18	12	12	27	27	22	32	27	22.125				1.1
24	39361 236	27	6	9	22	22	9	15	18	16.000				.9
25	39362 237	12	6	6	7	7	6	12	12	8.500				.6
26	39363 238	7	12	6	4	3	2	5	6	5.625				.3
27	39364 239	6	7	5	7	5	5	3	3	5.125				.2
28	39365 240	3	0	4	3	4	6	6	7	4.125				.2
29	39366 241	3	2	2	4	27	7	12	48	13.125				1.0
30	39367 242	11	48	15	18	56	67	154	154	81.625				1.8
31	39368 243	56	12	15	7	32	22	22	15	22.625				1.2

AUGUST 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOJ. JULIAN DAY	DAY	122.0	108.4	102.0	102.2	78	58.6	52.8	53.0
1	39338	213	1	122.0	108.4	102.0	102.2	78	58.6	53.0
2	39339	214	1	116.0	108.8	102.4	102.5	74	59.7	53.6
3	39340	215	1	114.0	109.0	102.7	102.7	72	60.2	53.9
4	39341	216	1	112.0	109.1	103.1	102.9	68	60.2	54.2
5	39342	217	1	107.0	109.2	103.4	103.0	60	60.2	54.3
6	39343	218	1	103.0	109.1	103.5	103.1	50	59.6	54.5
7	39344	219	1	98.0	108.9	103.6	103.1	33	58.9	54.6
8	39345	220	1	95.0	108.7	103.7	103.0	13	57.1	54.3
9	39346	221	1	93.0	108.6	103.7	102.8	13	55.5	53.7
10	39347	222	1	91.0	108.4	103.6	102.4	0	54.0	52.8
11	39348	223	1	90.0	108.1	103.5	102.1	16	53.3	52.1
12	39349	224	1	90.0	107.8	103.4	101.8	36	52.9	51.7
13	39350	225	1	90.0	107.5	103.4	101.5	30	52.4	51.2
14	39351	226	1	90.0	107.2	103.4	101.3	37	52.0	50.9
15	39352	227	1	91.0	107.0	103.4	101.0	41	52.1	50.5
16	39353	228	1	92.0	106.7	103.3	100.9	40	51.1	50.2
17	39354	229	1	94.0	106.5	103.2	100.8	41	50.6	50.0
18	39355	230	1	95.0	106.2	103.1	100.7	39	49.6	49.9
19	39356	231	1	97.0	105.7	103.0	100.4	33	48.8	49.6
20	39357	232	1	99.0	105.1	103.0	100.6	28	47.2	49.3
21	39358	233	1	100.0	104.3	103.1	100.6	22	45.6	48.7
22	39359	234	1	103.0	103.5	103.2	100.6	38	44.2	48.2
23	39360	235	1	112.0	103.2	103.5	100.8	65	44.2	48.5
24	39361	236	1	119.0	103.2	103.9	101.0	71	44.3	48.6
25	39362	237	1	123.0	103.0	104.4	101.3	89	44.7	49.1
26	39363	238	1	127.0	103.1	105.0	101.7	95	46.1	49.7
27	39364	239	1	130.0	103.4	105.5	102.1	90	47.1	50.4
28	39365	240	1	130.0	103.7	106.1	102.6	84	47.3	51.0
29	39366	241	1	127.0	104.1	106.5	103.0	89	47.9	51.7
30	39367	242	1	123.0	104.5	106.7	103.3	76	48.0	52.3
31	39368	243	1	119.0	104.7	106.9	103.6	66	48.0	52.6

MONTHLY AVERAGE 106.2  
MONTHLY SMOOTHED 109.3

51.2  
56.6

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY	MOD.	DAY	JULIAN										SUM	AVG.
OF	OF	OF	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	
MONTH	DAY	YEAR	1	2	3	4	5	6	7	8				
1	39369	244	1.667	2.667	2.667	5.000	3.333	3.000	4.667	4.000	27.000	3.375		
2	39370	245	3.000	2.333	1.667	1.667	2.667	4.500	4.333	3.000	22.667	2.833		
3	39371	246	3.000	3.333	3.667	5.667	6.000	6.000	7.333	8.667	43.667	5.450		
4	39372	247	8.667	8.333	7.333	6.000	5.667	4.000	3.333	3.000	46.333	5.792		
5	39373	248	2.000	1.333	1.000	3.000	4.333	3.667	2.000	2.333	19.667	2.458		
6	39374	249	3.333	4.667	4.333	4.667	4.000	4.000	1.667	2.000	28.667	3.583		
7	39375	250	2.333	3.667	2.667	2.000	3.333	3.333	3.333	2.667	23.333	2.917		
8	39376	251	4.000	5.333	4.667	5.667	5.000	4.667	3.667	4.667	37.667	4.708		
9	39377	252	3.333	3.333	3.333	3.000	3.333	4.000	2.333	4.333	27.000	3.375		
10	39378	253	4.000	4.333	2.667	3.000	3.000	3.333	3.333	3.333	27.000	3.375		
11	39379	254	3.333	2.333	2.333	1.667	1.000	1.000	.333	1.000	13.000	1.625		
12	39380	255	.333	.333	1.333	2.667	1.333	2.000	.667	1.333	10.000	1.250		
13	39381	256	1.667	1.667	.667	.667	1.333	1.000	.667	.667	8.333	1.042		
14	39382	257	.667	.333	1.000	1.000	1.000	3.333	3.000	4.333	14.667	1.833		
15	39383	258	4.667	4.000	3.000	3.000	2.000	2.000	4.333	3.667	26.667	3.333		
16	39384	259	3.667	1.667	.667	2.333	2.000	2.000	2.667	2.667	17.667	2.208		
17	39385	260	3.333	3.333	2.667	1.667	1.333	1.667	.667	.667	15.333	1.917		
18	39386	261	.333	.000	.667	1.333	1.000	.667	1.000	1.333	6.333	.792		
19	39387	262	3.333	4.000	2.667	1.000	2.667	3.000	3.333	4.000	24.000	3.000		
20	39388	263	3.667	3.333	3.667	3.333	4.333	3.667	3.333	3.333	28.667	3.583		
21	39389	264	3.333	3.333	1.333	2.000	3.333	.667	1.333	1.000	16.333	2.042		
22	39390	265	2.000	1.667	1.000	1.000	.667	1.333	3.000	2.000	12.667	1.583		
23	39391	266	1.333	2.000	3.000	3.333	3.333	4.000	4.333	2.667	24.000	3.000		
24	39392	267	3.000	2.000	2.333	2.667	3.000	3.000	3.000	1.333	20.333	2.542		
25	39393	268	4.000	4.000	3.667	1.000	.333	1.000	1.333	2.667	18.000	2.250		
26	39394	269	4.333	2.333	2.667	3.333	3.667	4.333	4.333	3.333	28.333	3.542		
27	39395	270	3.667	4.000	2.667	4.000	3.333	3.000	2.333	3.333	26.333	3.292		
28	39396	271	3.667	5.000	2.000	2.667	3.000	3.667	.667	4.000	24.667	3.083		
29	39397	272	3.333	4.000	3.667	2.000	1.667	4.000	3.667	1.667	24.000	3.000		
30	39398	273	1.667	4.333	3.667	2.333	3.000	3.000	1.000	4.000	23.000	2.375		

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

425



SEPTEMBER 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1				
DAY	YEAR	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY				
1	39369 244	114.0	105.0	107.1	103.9	44	47.4	53.8	52.7
2	39370 245	104.0	105.0	107.1	104.0	44	47.1	53.4	52.8
3	39371 246	101.0	105.1	107.0	104.1	25	46.9	52.9	52.7
4	39372 247	100.0	105.3	107.0	104.2	10	47.0	52.1	52.7
5	39373 248	98.0	105.5	107.0	104.3	26	47.5	51.5	52.5
6	39374 249	96.0	105.7	107.0	104.3	30	48.6	51.3	52.3
7	39375 250	94.0	105.8	107.0	104.3	36	49.4	51.3	52.3
8	39376 251	94.0	106.0	106.9	104.3	38	49.4	51.1	52.3
9	39377 252	94.0	106.1	106.8	104.3	39	49.8	51.1	52.3
10	39378 253	92.0	106.2	106.7	104.3	37	49.8	50.9	52.3
11	39379 254	95.0	106.3	106.6	104.4	42	49.8	50.9	52.4
12	39380 255	99.0	106.6	106.7	104.4	38	49.7	50.4	52.1
13	39381 256	101.0	106.9	106.7	104.4	33	49.4	50.0	51.7
14	39382 257	106.0	107.3	106.7	104.5	35	49.3	49.5	51.1
15	39383 258	110.0	107.7	106.7	104.6	38	49.5	49.1	50.6
16	39384 259	123.0	108.6	106.9	104.9	57	50.6	48.9	50.4
17	39385 260	127.0	109.6	106.9	105.3	76	52.6	49.1	50.7
18	39386 261	141.0	111.0	107.3	105.8	83	54.2	49.2	51.1
19	39387 262	145.0	112.3	107.7	106.4	76	54.6	49.4	51.4
20	39388 263	144.0	113.2	108.2	107.0	78	54.9	49.6	51.7
21	39389 264	136.0	113.7	108.3	107.5	89	54.9	49.8	52.2
22	39390 265	130.0	113.8	108.4	107.9	86	54.6	50.3	52.6
23	39391 266	126.0	113.6	108.5	108.2	71	53.9	50.5	52.8
24	39392 267	125.0	113.4	108.6	108.5	67	53.2	50.3	53.1
25	39393 268	118.0	113.1	108.6	108.7	68	52.4	50.2	53.3
26	39394 269	108.0	112.6	108.5	108.7	54	51.6	49.8	53.3
27	39395 270	102.0	112.0	108.3	108.6	48	51.0	49.5	53.0
28	39396 271	97.0	111.3	108.1	108.5	42	50.9	49.1	52.8
29	39397 272	96.0	111.1	108.1	108.4	45	50.9	49.0	52.6
30	39398 273	95.0	110.9	108.0	108.3	42	51.6	49.2	52.4

MONTHLY AVERAGE 110.4  
MONTHLY SMOOTHED 114.8

50.2  
63.1

GEOMAGNETIC PLANETARY INDICES

427

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY												MAGNETIC CHARACTER		
		1	2	3	4	5	6	7	8	9	10	11	12			
1	39399	274	15	7	7	7	4	4	4	2	3	3	3	5.625	.3	
2	39400	275	0	3	5	3	3	3	3	2	2	3	3	2.625	.0	
3	39401	276	0	4	6	3	3	3	3	2	2	3	7	3.500	.1	
4	39402	277	7	15	7	9	9	15	22	56	39	80	12	26.375	1.3	
5	39403	278	48	48	32	56	15	39	39	12	36.125	1.5	1.5	22.250	1.0	
6	39404	279	12	56	32	18	27	9	9	15	22.250	1.0	1.0	7.875	.5	
7	39405	280	9	6	3	2	4	15	6	18	7.875	.5	.5	5.250	.2	
8	39406	281	9	5	9	6	4	2	3	4	5.250	.2	.2	9.125	.6	
9	39407	282	9	12	7	9	18	4	7	9	2.875	.2	.2	1.500	.0	
10	39408	283	2	0	3	5	2	2	7	2	2.875	.2	.2	9.625	.6	
11	39409	284	0	0	2	2	2	0	4	2	1.500	.0	.0	7.625	.5	
12	39410	285	7	5	9	9	9	5	18	18	9.625	.6	.6	4.125	.1	
13	39411	286	9	3	6	9	6	7	6	15	7.625	.5	.5	14.125	.8	
14	39412	287	5	7	3	3	4	2	3	3	32.750	1.4	1.4	5.875	.3	
15	39413	288	4	7	4	15	7	22	32	22	5	5	4	4.500	.2	
16	39414	289	18	27	30	32	56	22	15	12	3	3	3	4.125	.1	
17	39415	290	12	7	3	3	3	9	9	5	5	5	5	1.500	.0	
18	39416	291	15	2	2	4	4	3	3	3	2.500	.1	.1	11.000	.9	
19	39417	292	4	4	5	4	4	2	3	6	5	5	5	22.375	1.2	
20	39418	293	5	4	3	4	4	3	5	4	3	3	3	14.875	1.0	
21	39419	294	0	0	0	4	4	4	2	2	0	0	0	6.375	.3	
22	39420	295	0	0	0	0	2	2	0	2	6	6	6	5.000	.2	
23	39421	296	6	0	0	0	0	2	3	4	5	5	5	3.625	.1	
24	39422	297	4	5	6	9	12	22	15	15	11.000	.9	.9	22.375	1.2	
25	39423	298	27	15	27	27	27	7	27	27	22.375	1.2	1.2	14.875	1.0	
26	39424	299	22	32	6	9	12	22	9	7	14.875	1.0	1.0	6.375	.3	
27	39425	300	9	4	3	4	4	9	6	12	6.375	.3	.3	5.000	.2	
28	39426	301	15	3	4	3	2	2	4	5	3.625	.1	.1	13.000	.9	
29	39427	302	7	6	4	5	6	3	3	4	2	2	2	34.250	1.5	
30	39428	303	7	6	4	5	6	3	3	4	2	2	2	34.250	1.5	
31	39429	304	39	39	27	32	39	32	39	32	39	32	39	27	34.250	1.5

OCTOBER 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH		MOD. JULIAN DAY	1-----SOLAR FLUX(10.7CM OTTAWA)-----1				1-----RELATIVE ZURICH SUNSPOT NUMBER-----1				
		DAY YEAR	1-----RUNNING MEANS-----1		1-----RUNNING MEANS-----1		1-----RUNNING MEANS-----1		1-----RUNNING MEANS-----1		
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1		39399 274	101.0	110.9	108.1	108.3	1	57	53.0	50.0	52.4
2		39400 275	101.0	111.0	108.3	108.4	1	55	54.1	50.3	52.4
3		39401 276	103.0	111.3	108.5	108.5	1	50	54.8	51.7	52.5
4		39402 277	100.0	111.5	108.7	108.5	1	36	54.8	52.1	52.5
5		39403 278	100.0	111.7	108.9	108.5	1	40	54.9	52.2	52.4
6		39404 279	102.0	112.0	109.1	108.6	1	44	55.1	52.4	52.4
7		39405 280	103.0	112.4	109.3	108.6	1	53	55.7	52.7	52.5
8		39406 281	99.0	112.6	109.5	108.6	1	40	55.9	52.9	52.6
9		39407 282	103.0	112.7	109.7	108.7	1	44	56.1	52.9	52.3
10		39408 283	106.0	112.9	109.9	108.8	1	65	57.3	53.4	52.5
11		39409 284	110.0	113.1	110.2	108.9	1	66	58.4	53.9	52.5
12		39410 285	115.0	113.3	110.5	108.9	1	64	59.4	54.4	52.6
13		39411 286	123.0	113.3	110.9	109.0	1	72	60.0	55.3	52.6
14		39412 287	120.0	113.0	111.3	109.0	1	64	59.5	56.0	52.5
15		39413 288	121.0	112.3	111.6	108.9	1	60	58.7	54.4	52.4
16		39414 289	121.0	111.4	111.8	109.0	1	70	58.4	56.5	52.4
17		39415 290	121.0	110.5	111.9	109.0	1	70	58.1	56.5	52.4
18		39416 291	119.0	109.9	111.8	108.9	1	70	57.4	56.2	52.4
19		39417 292	116.0	109.4	111.6	108.8	1	76	57.1	55.3	52.6
20		39418 293	125.0	109.3	111.5	108.8	1	76	58.0	55.9	53.0
21		39419 294	122.0	109.2	111.3	108.9	1	91	58.9	56.1	53.1
22		39420 295	121.0	109.3	111.2	108.9	1	83	59.4	55.9	53.3
23		39421 296	112.0	109.5	111.0	108.8	1	75	60.2	55.9	53.3
24		39422 297	107.0	109.7	110.8	108.8	1	64	60.8	55.9	53.2
25		39423 298	102.0	109.9	110.6	108.7	1	50	61.1	56.0	53.1
26		39424 299	99.0	109.9	110.5	108.7	1	47	61.2	56.1	53.1
27		39425 300	93.0	109.8	110.3	108.6	1	39	61.1	56.3	53.2
28		39426 301	95.0	109.6	110.2	108.6	1	36	60.3	56.6	53.4
29		39427 302	101.0	109.6	110.3	108.7	1	27	59.3	56.7	53.6
30		39428 303	97.0	109.3	110.3	108.8	1	27	58.4	56.6	54.0
31		39429 304	98.0	109.3	110.4	108.9	1	35	58.4	56.6	54.2

MONTHLY AVERAGE 108.2  
MONTHLY SMOOTHED 119.1

57.2  
67.6

# QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY	MOD.	DAY	KP	KP	KP	KP	KP	KP	KP	KP	SUM	AVG.
OF	JULIAN	OF	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP
MONTH	DAY	YEAR	1	2	3	4	5	6	7	8		
1	39430	305	3.667	4.000	4.667	4.667	4.667	5.000	3.000	3.333	33.000	4.125
2	39431	306	3.667	2.000	2.000	2.333	3.000	3.333	3.333	2.667	22.333	2.792
3	39432	307	2.667	3.000	3.667	3.667	3.000	4.000	2.667	2.667	25.333	3.167
4	39433	308	2.667	3.000	2.333	.667	.667	.667	3.333	1.667	15.000	1.875
5	39434	309	2.000	2.333	2.667	2.000	2.000	3.000	2.333	1.000	17.333	2.167
6	39435	310	1.000	2.667	2.000	2.000	1.667	2.000	2.000	1.000	14.333	1.792
7	39436	311	1.667	1.333	1.667	1.000	.333	.333	1.333	3.333	11.000	1.375
8	39437	312	3.333	2.667	1.333	1.000	1.000	1.333	2.000	.000	12.667	1.583
9	39438	313	1.000	1.000	.667	.667	.333	.333	.333	.667	5.000	.625
10	39439	314	.333	2.000	2.667	3.000	2.667	2.000	2.000	2.000	16.667	2.083
11	39440	315	2.000	2.667	1.667	3.333	.667	.667	.333	.000	11.333	1.417
12	39441	316	2.000	2.667	1.333	2.000	1.333	1.667	3.333	.667	15.000	1.875
13	39442	317	1.667	1.333	1.333	3.333	1.667	.667	2.000	2.333	14.333	1.792
14	39443	318	1.000	.000	.667	.667	.000	.000	.000	1.000	3.333	.417
15	39444	319	1.667	.333	1.000	1.333	.667	1.000	1.000	1.333	8.333	1.042
16	39445	320	1.667	1.333	2.000	1.667	.667	.667	1.000	.667	9.333	1.167
17	39446	321	3.000	3.000	2.667	1.000	.667	3.333	3.333	1.333	18.333	2.292
18	39447	322	.333	.000	.000	1.667	2.667	4.000	3.333	4.000	16.000	2.000
19	39448	323	3.000	3.333	3.333	2.000	2.667	1.667	2.000	2.667	20.667	2.583
20	39449	324	3.333	1.667	1.333	1.000	1.333	1.333	2.333	2.667	15.000	1.875
21	39450	325	1.333	2.333	2.667	1.333	.667	.333	1.000	2.667	12.333	1.542
22	39451	326	1.333	1.333	.333	1.000	.333	.333	.000	.333	5.000	.625
23	39452	327	1.333	.333	.000	.333	.333	.667	.333	.667	4.000	.500
24	39453	328	1.000	3.000	2.333	1.333	1.667	.333	1.000	.667	11.333	1.417
25	39454	329	1.000	.667	.333	.667	1.667	1.000	1.000	1.333	7.667	.958
26	39455	330	3.667	3.333	2.333	2.333	2.333	2.333	1.000	.333	17.667	2.208
27	39456	331	.333	2.333	1.333	1.000	1.000	2.333	2.667	1.000	12.000	1.500
28	39457	332	2.333	1.667	1.667	3.000	3.000	4.333	5.000	3.333	24.333	3.042
29	39458	333	5.000	3.000	3.333	2.333	2.000	3.000	1.667	1.000	21.333	2.667
30	39459	334	1.667	3.000	5.333	4.000	4.333	4.667	3.333	4.000	30.333	3.792

GEOMAGNETIC PLANETARY INDICES

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PLANETARY AMPLITUDE THREE HOURLY (API) INDICES

[illegible]

NOVEMBER 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY		MOO. DAY		1-----SOLAR FLUX(10.7CM OTTAWA)-----1		1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	
OF	JULIAN	OF	JULIAN	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1
MONTH	DAY	YEAR	DAY	27-DAY	54-DAY	81-DAY	DAILY 27-DAY 54-DAY 81-DAY
1	39430	305	1	96.0	109.1	110.4	108.9 43 58.5 56.7 54.3
2	39431	306	1	98.0	109.0	110.5	109.0 42 58.4 56.7 54.4
3	39432	307	1	94.0	108.6	110.5	109.1 38 57.9 56.8 54.4
4	39433	308	1	93.0	108.4	110.5	109.1 38 57.5 56.7 54.4
5	39434	309	1	99.0	108.3	110.5	109.2 20 56.6 56.4 54.1
6	39435	310	1	106.0	108.3	110.6	109.3 32 55.4 56.3 54.0
7	39436	311	1	115.0	108.4	110.8	109.6 44 54.7 56.6 54.1
8	39437	312	1	119.0	108.6	110.9	109.9 55 54.4 56.9 54.4
9	39438	313	1	119.0	108.4	110.9	110.1 59 53.9 56.9 54.8
10	39439	314	1	124.0	108.6	110.8	110.4 63 53.9 56.7 55.3
11	39440	315	1	128.0	108.9	110.6	110.7 72 54.3 56.5 55.7
12	39441	316	1	128.0	109.1	110.2	110.9 80 54.7 56.6 55.9
13	39442	317	1	129.0	109.4	110.0	111.0 68 54.6 56.4 55.9
14	39443	318	1	126.0	109.7	109.8	111.1 66 54.4 55.9 55.6
15	39444	319	1	125.0	110.0	109.7	111.0 66 54.1 55.6 55.2
16	39445	320	1	123.0	109.9	109.6	111.0 52 52.4 55.2 54.8
17	39446	321	1	115.0	109.7	109.4	110.8 59 51.3 55.1 54.5
18	39447	322	1	116.0	109.5	109.4	110.6 57 50.3 54.9 54.1
19	39448	323	1	113.0	109.5	109.5	110.5 65 49.9 55.1 53.9
20	39449	324	1	113.0	109.7	109.7	110.5 74 50.3 55.6 54.0
21	39450	325	1	113.0	110.1	110.0	110.4 77 51.3 56.2 54.4
22	39451	326	1	119.0	110.9	110.4	110.6 78 52.4 56.8 54.9
23	39452	327	1	117.0	111.8	110.8	110.8 76 53.8 57.4 55.5
24	39453	328	1	116.0	112.6	111.1	111.0 72 55.1 57.7 56.1
25	39454	329	1	113.0	113.0	111.3	111.2 74 56.9 58.1 56.7
26	39455	330	1	110.0	113.5	111.4	111.4 67 58.4 58.4 57.2
27	39456	331	1	114.0	114.1	111.7	111.6 59 59.3 58.8 57.5
28	39457	332	1	107.0	114.5	111.8	111.8 41 59.2 58.8 57.5
29	39458	333	1	100.0	114.6	111.8	111.9 37 59.0 58.7 57.5
30	39459	334	1	97.0	114.7	111.7	111.9 37 59.0 58.4 57.5

MONTHLY AVERAGE 112.9  
MONTHLY SMOOTHED 122.3

57.2  
70.2

GEOMAGNETIC PLANETARY INDICES

433



DECEMBER 1966

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	39460	335	22	32	22	9	12	6	22	9	16.750				1.0
2	39461	336	9	9	5	4	5	5	4	9	6.250				.2
3	39462	337	5	3	3	5	2	2	3	5	3.500				.1
4	39463	338	9	9	39	22	18	12	18	22	18.625				1.1
5	39464	339	22	27	22	12	5	18	39	12	19.625				1.1
6	39465	340	15	9	9	5	4	4	5	5	7.000				.3
7	39466	341	3	5	3	3	2	2	5	5	3.500				.1
8	39467	342	3	3	3	3	0	2	2	12	3.500				.1
9	39468	343	6	2	3	2	2	3	4	0	2.750				.1
10	39469	344	0	3	7	5	0	3	6	4	3.500				.1
11	39470	345	5	4	2	0	2	3	4	2	2.750				.1
12	39471	346	2	2	2	2	0	2	2	3	1.875				.0
13	39472	347	12	22	32	15	22	39	6	9	19.625				1.2
14	39473	348	7	22	15	12	80	132	56	56	47.500				1.7
15	39474	349	48	18	7	15	12	27	12	7	18.250				1.2
16	39475	350	9	12	6	6	9	9	7	7	8.125				.5
17	39476	351	9	7	4	5	7	6	5	27	8.750				.7
18	39477	352	5	6	9	6	3	4	4	4	5.125				.1
19	39478	353	5	3	4	2	0	3	5	5	3.375				.1
20	39479	354	2	0	2	2	7	9	18	15	6.875				.5
21	39480	355	12	22	9	7	4	18	15	9	12.000				.7
22	39481	356	7	18	9	9	12	15	18	22	13.750				1.0
23	39482	357	9	5	5	5	5	9	15	12	8.125				.7
24	39483	358	9	15	32	18	4	5	7	5	11.875				.6
25	39484	359	12	9	15	18	15	7	15	22	14.125				.8
26	39485	360	22	12	18	27	22	39	22	32	24.250				1.4
27	39486	361	39	39	32	27	48	32	22	32	33.875				1.5
28	39487	362	18	6	9	12	27	9	15	12	13.500				.9
29	39488	363	9	6	9	12	5	5	5	6	7.125				.2
30	39489	364	4	5	4	5	6	15	2	4	5.625				.5
31	39490	365	3	0	4	3	4	5	2	3	3.000				.0

DECEMBER 1966

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOJ. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY
1	39460 335	1	94.0	114.7	111.6	111.9	1	35	58.9
2	39461 336	1	97.0	114.7	111.5	111.9	1	33	59.3
3	39462 337	1	102.0	114.5	111.4	111.9	1	30	59.3
4	39463 338	1	107.0	114.2	111.3	111.9	1	57	59.6
5	39464 339	1	114.0	114.0	111.3	112.0	1	69	60.1
6	39465 340	1	119.0	114.0	111.2	111.9	1	68	60.4
7	39466 341	1	121.0	113.9	111.3	111.8	1	64	60.5
8	39467 342	1	127.0	113.9	111.4	111.7	1	88	61.1
9	39468 343	1	150.0	114.7	111.9	111.7	1	86	61.3
10	39469 344	1	162.0	115.9	112.7	112.0	1	112	62.9
11	39470 345	1	168.0	117.5	113.6	112.3	1	125	65.1
12	39471 346	1	162.0	118.9	114.4	112.7	1	130	67.5
13	39472 347	1	160.0	120.2	115.1	113.2	1	119	69.9
14	39473 348	1	154.0	121.7	115.7	113.5	1	113	71.9
15	39474 349	1	149.0	122.9	116.2	113.9	1	107	73.8
16	39475 350	1	139.0	123.9	116.7	114.3	1	116	75.7
17	39476 351	1	129.0	124.4	117.1	114.6	1	88	76.2
18	39477 352	1	114.0	124.5	117.3	114.8	1	76	76.1
19	39478 353	1	116.0	124.4	117.6	115.0	1	57	75.4
20	39479 354	1	111.0	124.1	118.0	115.2	1	46	74.3
21	39480 355	1	110.0	123.9	118.3	115.4	1	37	73.0
22	39481 356	1	109.0	123.8	118.4	115.5	1	34	71.5
23	39482 357	1	114.0	123.9	118.7	115.6	1	38	70.4
24	39483 358	1	114.0	123.9	119.0	115.8	1	45	69.9
25	39484 359	1	115.0	124.2	119.4	116.0	1	60	70.6
26	39485 360	1	114.0	124.7	119.7	116.1	1	65	71.6
27	39486 361	1	113.0	125.3	120.0	116.2	1	48	72.0
28	39487 362	1	111.0	126.0	120.4	116.4	1	48	72.5
29	39488 363	1	113.0	126.6	120.6	116.5	1	51	73.2
30	39489 364	1	119.0	127.2	120.9	116.7	1	70	74.7
31	39490 365	1	124.0	127.8	121.0	116.8	1	68	75.1

MONTHLY AVERAGE 124.2  
MONTHLY SMOOTHED 125.2

70.4  
72.7

JANUARY 1967

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP R	SUM KP	AVG. KP	
1	39491	1	2.333	2.333	1.667	3.000	3.333	5.333	3.333	2.333	23.667	2.958
2	39492	2	2.333	2.667	1.333	1.333	1.000	1.000	2.333	1.333	13.667	1.708
3	39493	3	1.333	2.333	1.333	2.667	3.333	3.333	2.000	.333	16.667	2.083
4	39494	4	.000	.333	.333	.000	.667	.333	1.000	1.000	3.667	.458
5	39495	5	1.333	.333	.333	.667	.667	.667	.333	.667	5.000	.625
6	39496	6	.333	1.000	2.667	2.000	1.000	1.333	2.000	.667	11.000	1.375
7	39497	7	.667	.333	3.333	3.667	4.333	5.000	4.667	5.333	27.333	3.417
8	39498	8	6.333	6.667	6.333	6.000	4.000	5.000	3.333	2.333	40.000	5.000
9	39499	9	2.333	4.000	2.333	2.000	3.333	3.000	1.667	2.000	20.667	2.583
10	39500	10	2.000	.333	.333	.333	1.667	2.000	2.000	2.000	9.000	1.125
11	39501	11	3.333	2.667	3.000	2.000	3.333	4.000	3.000	3.000	24.333	3.042
12	39502	12	1.000	.000	.333	.333	.333	.000	.667	.333	3.000	.375
13	39503	13	1.000	2.000	3.000	2.000	5.667	2.667	4.333	5.667	26.333	3.292
14	39504	14	7.333	7.667	6.000	5.333	1.667	1.333	1.000	1.000	31.333	3.917
15	39505	15	3.000	.667	1.000	2.333	2.667	1.667	2.333	2.667	16.333	2.042
16	39506	16	2.667	2.667	3.333	2.000	2.000	1.333	1.667	1.333	17.000	2.125
17	39507	17	1.333	1.333	1.000	1.333	.333	1.333	.667	1.000	8.333	1.042
18	39508	18	1.333	1.333	.333	.667	1.333	2.000	2.000	1.333	10.333	1.292
19	39509	19	2.000	.667	.667	1.000	.333	1.000	2.333	1.333	9.333	1.167
20	39510	20	1.333	2.333	3.333	2.333	2.667	4.000	3.333	2.333	21.667	2.708
21	39511	21	2.000	3.000	2.333	2.333	2.000	3.000	1.000	1.000	16.667	2.083
22	39512	22	2.333	.000	1.333	1.000	.667	.667	1.333	1.000	8.333	1.042
23	39513	23	2.333	1.667	2.000	1.667	.333	.667	1.000	1.333	11.000	1.375
24	39514	24	1.000	.333	.000	.000	.333	.333	.333	1.333	3.667	.458
25	39515	25	1.667	1.333	1.000	1.667	2.000	1.000	.667	.667	10.000	1.250
26	39516	26	1.333	1.000	1.333	2.000	1.667	.000	.000	.333	7.667	.958
27	39517	27	.333	.333	.667	1.667	1.333	1.000	.667	1.000	7.000	.875
28	39518	28	2.000	3.667	3.667	3.333	1.000	1.333	2.667	1.667	19.333	2.417
29	39519	29	1.667	1.667	2.333	1.000	.667	.667	1.000	.000	9.000	1.125
30	39520	30	.333	.667	1.000	.667	.667	.333	.667	.667	5.000	.625
31	39521	31	.000	.333	.667	.667	.333	1.000	.667	.667	4.000	.500

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY		JULIAN OF DAY YEAR								MAGNETIC CHARACTER							
	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
1	39491	1	9	9	6	15	18	56	18	9	17	500	1.2					
2	39492	2	9	12	5	5	5	4	9	5	6	750	.3					
3	39493	3	5	9	5	12	18	18	7	2	9	500	.6					
4	39494	4	0	2	2	0	3	2	4	4	2	125	.0					
5	39495	5	5	2	2	3	3	3	2	3	2	875	.0					
6	39496	6	2	4	12	7	4	5	7	3	5	500	.4					
7	39497	7	3	2	18	22	32	48	39	56	27	500	1.4					
8	39498	8	94	111	94	80	27	48	18	9	60	125	1.7					
9	39499	9	9	27	9	7	18	15	6	7	12	250	.8					
10	39500	10	7	2	2	2	2	6	7	7	4	375	.2					
11	39501	11	18	12	15	7	18	27	15	15	15	875	.9					
12	39502	12	4	0	2	2	2	0	3	2	1	875	.1					
13	39503	13	4	7	15	7	67	12	32	67	26	375	1.4					
14	39504	14	154	179	80	56	6	5	4	4	61	000	1.6					
15	39505	15	15	3	4	9	12	6	9	12	8	750	.4					
16	39506	16	12	12	18	7	7	5	6	5	9	000	.4					
17	39507	17	5	5	4	5	2	5	3	4	4	125	.2					
18	39508	18	5	5	2	3	5	7	7	5	4	875	.2					
19	39509	19	7	3	3	4	2	4	9	5	4	625	.3					
20	39510	20	5	9	18	9	12	27	18	9	13	375	1.0					
21	39511	21	7	15	9	9	7	15	4	4	8	750	.4					
22	39512	22	9	0	5	4	3	3	5	4	4	125	.2					
23	39513	23	9	6	7	6	2	3	4	5	5	250	.2					
24	39514	24	4	2	0	0	2	2	2	5	2	125	.0					
25	39515	25	6	5	4	6	7	4	3	3	4	750	.2					
26	39516	26	5	4	5	7	6	0	0	2	3	625	.1					
27	39517	27	2	2	3	6	5	4	3	4	3	625	.2					
28	39518	28	7	22	22	18	4	5	12	6	12	000	.6					
29	39519	29	6	6	4	4	3	3	4	0	4	375	.1					
30	39520	30	2	3	4	3	3	2	3	3	2	875	.0					
31	39521	31	0	2	3	2	2	4	3	3	2	375	.1					

438

JANUARY 1967

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	39491	1	128.0	128.3	121.2	117.0	1	73	75.2	67.7	63.2																						
2	39492	2	147.0	129.4	121.7	117.3	1	96	76.3	68.4	63.5																						
3	39493	3	159.0	130.8	122.4	117.9	1	124	78.5	69.5	64.3																						
4	39494	4	166.0	132.2	123.1	116.3	1	148	80.7	70.9	65.4																						
5	39495	5	174.0	133.1	123.9	119.0	1	150	83.1	72.2	66.3																						
6	39496	6	166.0	133.3	124.6	119.5	1	148	84.4	73.7	67.3																						
7	39497	7	158.0	132.9	125.2	120.0	1	134	84.7	74.9	68.1																						
8	39498	8	147.0	132.3	125.6	120.4	1	116	84.2	75.9	68.6																						
9	39499	9	149.0	131.9	126.1	120.7	1	111	84.0	76.9	68.8																						
10	39500	10	150.0	131.8	126.7	121.0	1	111	83.9	77.9	69.0																						
11	39501	11	144.0	131.6	127.2	121.3	1	104	83.8	78.8	69.3																						
12	39502	12	143.0	131.7	127.8	121.7	1	97	83.1	79.4	69.6																						
13	39503	13	142.0	132.2	128.3	122.1	1	93	83.3	79.7	69.9																						
14	39504	14	135.0	133.1	128.8	122.6	1	85	83.6	79.9	70.3																						
15	39505	15	130.0	133.7	129.0	123.0	1	60	83.7	79.5	70.5																						
16	39506	16	124.0	134.1	129.1	123.4	1	56	84.1	79.2	70.7																						
17	39507	17	120.0	134.5	129.2	123.7	1	59	84.9	78.9	71.0																						
18	39508	18	121.0	135.0	129.4	123.9	1	72	86.3	78.9	71.6																						
19	39509	19	120.0	135.2	129.6	124.2	1	82	87.9	79.2	72.2																						
20	39510	20	131.0	135.8	129.9	124.6	1	92	89.7	79.8	72.9																						
21	39511	21	142.0	136.8	130.5	125.2	1	125	92.1	81.3	74.0																						
22	39512	22	144.0	137.9	131.3	125.8	1	140	94.9	83.2	75.2																						
23	39513	23	153.0	139.4	132.4	126.5	1	152	98.7	85.4	76.6																						
24	39514	24	151.0	140.9	133.4	127.2	1	122	101.4	87.0	77.6																						
25	39515	25	147.0	142.1	134.4	127.8	1	133	104.5	88.8	79.0																						
26	39516	26	159.0	143.6	135.4	128.4	1	136	106.9	90.8	80.3																						
27	39517	27	163.0	145.1	136.4	129.0	1	130	109.2	92.1	81.3																						
28	39518	28	161.0	146.3	137.3	129.6	1	125	111.1	93.2	82.2																						
29	39519	29	163.0	146.9	138.1	130.1	1	122	112.1	94.2	82.9																						
30	39520	30	163.0	147.0	138.9	130.6	1	132	112.4	95.4	83.8																						
31	39521	31	161.0	146.9	139.5	131.0	1	110	111.0	95.9	84.3																						

MONTHLY AVERAGE 147.3 110.9  
MONTHLY SMOOTHED 127.6 75.0

FEBRUARY 1967

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39522	32	1.333	1.667	2.000	1.667	1.000	.667	.000	.333	8.667	1.083
2	39523	33	.000	.000	.667	.667	.333	.333	1.333	.667	4.000	.500
3	39524	34	.000	.000	.000	1.667	.333	.000	1.000	1.000	4.000	.500
4	39525	35	.333	2.333	2.000	2.000	2.333	3.333	2.667	4.000	19.000	2.375
5	39526	36	4.667	3.000	2.333	2.000	3.333	3.667	1.667	1.000	21.667	2.708
6	39527	37	1.000	2.333	2.000	1.333	1.667	1.000	1.000	3.333	13.667	1.708
7	39528	38	1.667	1.000	1.000	1.333	1.667	5.333	5.667	6.333	24.000	3.000
8	39529	39	6.000	6.000	4.667	4.667	4.667	3.667	4.667	4.000	38.333	4.792
9	39530	40	3.333	2.333	3.333	.667	.667	.333	1.333	.667	12.667	1.583
10	39531	41	.000	1.333	.333	.667	.667	.000	.000	.000	3.000	.375
11	39532	42	1.000	3.667	3.667	3.000	2.333	1.000	2.333	1.667	18.667	2.333
12	39533	43	.333	.000	.333	.667	.667	.667	.333	1.333	4.333	.542
13	39534	44	.667	.000	.333	.667	.333	2.000	1.667	1.667	7.333	.917
14	39535	45	1.667	1.000	1.000	1.333	.000	.000	1.333	1.333	9.000	1.125
15	39536	46	1.333	1.000	.333	.000	.000	.000	.667	4.667	8.000	1.000
16	39537	47	3.667	3.333	5.000	6.000	7.000	4.000	4.667	3.667	39.333	4.917
17	39538	48	3.333	4.000	2.333	3.000	3.000	3.000	2.000	2.667	23.333	2.917
18	39539	49	1.667	2.333	2.333	1.333	1.667	.000	.333	.000	9.667	1.208
19	39540	50	.000	.000	1.333	1.667	2.000	2.333	2.000	1.667	11.000	1.375
20	39541	51	.667	1.667	1.333	1.333	.333	1.333	1.667	1.667	10.000	1.250
21	39542	52	.667	.000	1.000	2.000	2.333	2.333	2.000	1.333	11.667	1.458
22	39543	53	2.000	1.000	1.333	2.000	2.667	1.667	2.333	1.667	14.667	1.833
23	39544	54	3.000	1.000	1.667	3.000	3.333	3.333	4.000	2.333	21.667	2.708
24	39545	55	.333	.000	2.000	1.333	.667	1.000	2.333	1.333	9.000	1.125
25	39546	56	1.000	4.333	3.000	3.000	2.000	3.333	3.333	2.667	22.667	2.833
26	39547	57	4.000	3.000	2.000	2.333	2.000	2.333	2.000	2.000	19.667	2.458
27	39548	58	.333	1.000	2.000	2.000	1.000	2.333	2.000	.333	11.000	1.375
28	39549	59	1.000	1.333	1.333	1.667	.667	1.000	1.000	1.333	9.333	1.167

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AP 9	MAGNETIC CHARACTER
1	39522	32	5	6	7	6	4	3	0	2	4.125	.1
2	39523	33	0	0	3	3	2	2	5	0	2.250	.0
3	39524	34	0	0	0	3	2	0	4	4	2.000	.0
4	39525	35	2	9	7	7	9	18	12	27	11.375	.7
5	39526	36	39	15	9	7	18	22	6	4	15.000	.8
6	39527	37	4	9	7	5	6	4	4	18	7.125	.4
7	39528	38	6	4	5	5	6	56	67	94	30.250	1.3
8	39529	39	80	39	39	39	39	22	39	27	45.625	1.5
9	39530	40	16	9	18	3	3	2	5	3	7.625	.4
10	39531	41	0	5	2	3	3	0	0	0	1.625	.0
11	39532	42	4	22	15	9	4	4	9	6	11.375	.7
12	39533	43	2	0	2	3	3	3	2	5	2.500	.0
13	39534	44	3	0	2	3	2	7	6	6	3.625	.1
14	39535	45	6	4	5	5	5	0	5	5	4.250	.1
15	39536	46	5	4	2	0	0	0	3	39	6.625	.3
16	39537	47	22	18	48	207	132	27	39	22	64.375	1.7
17	39538	48	18	27	9	15	15	15	7	12	14.750	.8
18	39539	49	6	9	9	5	6	0	2	0	4.625	.2
19	39540	50	0	0	5	6	7	9	7	6	5.000	.2
20	39541	51	3	6	5	5	2	5	6	6	4.750	.2
21	39542	52	3	0	4	7	9	9	7	5	5.500	.2
22	39543	53	7	4	5	7	12	6	9	6	7.000	.4
23	39544	54	15	4	6	15	13	18	27	9	14.000	.8
24	39545	55	2	0	7	5	3	4	7	5	4.375	.2
25	39546	56	4	32	15	15	7	18	18	12	15.125	.4
26	39547	57	27	15	7	9	7	9	7	7	11.000	.3
27	39548	58	2	4	7	9	4	9	7	2	5.250	.1
28	39549	59	4	5	5	6	3	4	4	5	4.500	.1

FEBRUARY 1967

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		39522	32	1	156.0	146.2	139.6	131.3	1	93	108.9	96.0	84.4																
		39523	33	1	147.0	145.5	139.4	131.6	1	88	106.7	95.5	84.7																
		39524	34	1	142.0	144.9	138.9	131.3	1	92	105.1	94.9	85.0																
		39525	35	1	141.0	144.7	139.5	132.0	1	100	104.5	94.4	85.4																
		39526	36	1	151.0	144.7	138.3	132.3	1	72	103.1	93.5	85.7																
		39527	37	1	153.0	144.9	138.3	132.8	1	89	102.3	93.1	86.0																
		39528	38	1	167.0	145.7	138.6	133.4	1	130	103.5	93.6	87.0																
		39529	39	1	152.0	146.0	138.9	133.9	1	109	104.0	93.5	87.6																
		39530	40	1	150.0	146.3	139.3	134.3	1	112	104.7	94.0	88.0																
		39531	41	1	144.0	146.5	139.8	134.7	1	97	105.1	94.4	88.3																
		39532	42	1	137.0	146.8	140.2	134.9	1	96	106.4	95.1	88.5																
		39533	43	1	136.0	147.2	140.7	135.2	1	79	107.3	95.7	88.5																
		39534	44	1	133.0	147.7	141.1	135.4	1	77	108.0	96.4	88.6																
		39535	45	1	132.0	148.1	141.5	135.6	1	58	107.4	96.9	88.4																
		39536	46	1	129.0	148.4	141.8	135.9	1	58	106.6	97.2	88.3																
		39537	47	1	128.0	148.3	142.1	136.0	1	60	105.4	97.5	88.3																
		39538	48	1	125.0	147.7	142.3	136.2	1	60	103.0	97.5	88.5																
		39539	49	1	127.0	147.1	142.5	136.6	1	70	100.4	97.6	89.0																
		39540	50	1	123.0	146.0	142.7	136.9	1	67	97.2	98.0	89.3																
		39541	51	1	131.0	145.2	143.1	137.4	1	74	95.4	98.4	89.8																
		39542	52	1	134.0	144.7	143.4	137.8	1	82	93.6	99.0	90.4																
		39543	53	1	149.0	144.4	144.0	138.4	1	86	91.7	99.3	91.1																
		39544	54	1	152.0	144.0	144.5	139.0	1	84	90.0	99.6	91.4																
		39545	55	1	165.0	144.1	145.2	139.6	1	100	89.1	100.1	91.8																
		39546	56	1	162.0	144.1	145.5	140.1	1	106	88.5	100.3	92.3																
		39547	57	1	176.0	144.6	145.8	140.8	1	123	88.1	100.3	93.0																
		39548	58	1	180.0	145.3	146.1	141.4	1	186	91.0	101.0	94.2																
		39549	59	1	183.0	146.3	146.2	141.9	1	166	93.7	101.3	95.2																

MONTHLY AVERAGE 146.6  
MONTHLY SMOOTHED 130.9

93.6  
78.9



QUASIS-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

[illegible]

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

MARCH 1967

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1-----RELATIVE ZURICH SUNSPOT NUMBER--1									
			1-----RUNNING MEANS-----1					1-----RUNNING MEANS-----1				
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	81-DAY
1	39550	60	197.0	148.1	146.8	142.3	172	96.8	101.7	96.0	96.0	96.0
2	39551	61	201.0	150.3	147.6	142.7	179	100.0	102.6	96.6	96.6	96.6
3	39552	62	199.0	152.4	148.6	143.1	191	103.4	103.9	97.4	97.4	97.4
4	39553	63	209.0	154.6	149.7	143.8	172	107.1	105.1	98.0	98.0	98.0
5	39554	64	182.0	155.7	150.3	144.1	164	109.9	106.1	98.7	98.7	98.7
6	39555	65	180.0	156.1	150.9	144.5	157	110.6	107.0	99.3	99.3	99.3
7	39556	66	166.0	156.7	151.4	144.8	137	111.6	107.8	99.5	99.5	99.5
8	39557	67	158.0	157.0	151.6	145.2	98	111.1	107.9	99.7	99.7	99.7
9	39558	68	160.0	157.6	152.0	145.7	85	110.6	107.9	99.0	99.0	99.0
10	39559	69	150.0	158.0	152.4	146.2	92	110.5	108.5	100.2	100.2	100.2
11	39560	70	143.0	158.3	152.8	146.6	89	110.9	109.1	100.7	100.7	100.7
12	39561	71	135.0	158.4	153.0	146.9	69	110.6	109.3	101.1	101.1	101.1
13	39562	72	130.0	158.3	153.2	147.1	53	110.4	108.9	101.4	101.4	101.4
14	39563	73	128.0	150.3	153.4	147.3	50	110.1	108.3	101.5	101.5	101.5
15	39564	74	133.0	158.4	153.4	147.5	52	109.8	107.6	101.6	101.6	101.6
16	39565	75	133.0	158.7	153.2	147.8	58	109.7	106.3	101.6	101.6	101.6
17	39566	76	133.0	159.0	153.0	148.0	74	109.9	105.1	101.7	101.7	101.7
18	39567	77	133.0	159.3	152.6	148.2	75	110.1	103.7	102.0	102.0	102.0
19	39568	78	137.3	159.6	152.4	148.6	73	110.1	102.8	102.3	102.3	102.3
20	39569	79	141.0	159.8	152.3	148.9	86	110.3	101.9	102.8	102.8	102.8
21	39570	80	140.0	159.8	152.1	149.3	92	110.5	101.1	103.0	103.0	103.0
22	39571	81	150.0	159.7	151.8	149.6	108	111.4	100.7	103.5	103.5	103.5
23	39572	82	156.0	159.4	151.7	149.9	111	111.8	100.4	104.0	104.0	104.0
24	39573	83	162.0	159.4	151.7	150.1	121	112.3	100.4	104.3	104.3	104.3
25	39574	84	170.0	159.1	151.9	150.2	131	112.6	100.4	104.4	104.4	104.4
26	39575	85	164.0	158.6	151.9	150.2	137	110.8	100.9	104.3	104.3	104.3
27	39576	86	163.0	157.8	152.0	150.1	122	109.2	101.4	103.9	103.9	103.9
28	39577	87	181.0	157.2	152.7	150.3	129	107.6	102.2	103.7	103.7	103.7
29	39578	88	179.0	156.4	153.4	150.5	133	105.9	102.9	103.7	103.7	103.7
30	39579	89	176.0	155.6	154.0	150.9	132	103.7	103.5	103.9	103.9	103.9
31	39580	90	168.0	154.0	154.3	151.1	125	102.0	104.5	104.0	104.0	104.0

MONTHLY AVERAGE 160.2  
MONTHLY SMOOTHED 133.8

111.8  
82.2

APRIL 1967

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

JAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG, KP
1	39581 91	1.333	.000	3.333	3.667	3.667	3.667	2.667	4.667	3.667	23.000	2.875
2	39582 92	.667	1.000	2.000	4.000	3.667	3.667	3.000	2.333	2.000	18.667	2.333
3	39583 93	3.000	1.333	.667	.667	.333	.333	.667	.667	1.333	9.667	1.083
4	39584 94	1.000	4.000	2.667	2.000	5.000	2.333	2.333	2.000	1.667	20.667	2.583
5	39585 95	2.000	2.667	3.000	3.000	2.667	2.667	2.667	2.000	1.667	19.667	2.458
6	39586 96	2.867	3.000	3.333	2.667	3.000	2.667	1.333	1.333	1.333	20.000	2.500
7	39587 97	2.667	3.000	2.000	1.333	1.000	1.667	1.667	2.667	1.000	15.333	1.917
8	39588 98	1.667	1.667	1.667	1.333	.667	1.333	1.333	1.667	1.000	11.000	1.375
9	39589 99	3.000	.000	.667	1.667	1.000	.333	.333	.667	2.000	9.333	1.167
10	39590 100	1.667	2.000	.667	.667	1.333	1.333	1.333	2.333	1.333	11.333	1.417
11	39591 101	.333	.333	.333	1.333	1.000	1.000	1.000	1.333	1.333	7.000	.875
12	39592 102	2.333	3.000	.667	.333	.333	.333	.333	.000	.667	7.667	.958
13	39593 103	.667	.667	.333	.333	.000	.333	.333	.667	1.333	4.333	.542
14	39594 104	.667	.333	1.333	.667	.667	.667	1.000	.667	.667	6.000	.750
15	39595 105	1.000	.333	.667	.333	.333	1.000	1.000	1.667	1.333	7.333	.917
16	39596 106	1.000	2.333	2.000	2.333	2.667	3.000	3.000	3.333	1.667	18.333	2.292
17	39597 107	3.667	4.000	1.333	2.667	1.667	1.667	.667	.667	1.667	16.333	2.042
18	39598 108	2.000	1.667	1.333	1.000	1.667	1.667	1.667	1.333	3.333	14.000	1.750
19	39599 109	4.000	4.333	4.000	3.667	3.000	2.667	2.667	3.000	2.667	27.333	3.417
20	39600 110	2.000	2.333	1.333	1.000	2.333	1.000	1.000	2.667	1.667	14.333	1.792
21	39601 111	2.333	2.000	2.000	1.333	2.000	2.333	2.333	1.333	2.000	15.333	1.917
22	39602 112	3.667	3.333	4.667	3.667	2.667	3.000	3.000	2.333	2.000	25.333	3.167
23	39603 113	3.000	1.667	1.000	1.667	3.333	5.333	5.333	5.000	3.333	24.333	3.042
24	39604 114	5.000	5.000	3.333	4.000	3.667	4.000	4.000	4.000	3.000	32.000	4.000
25	39605 115	3.333	3.333	1.667	1.667	.667	1.667	1.000	.667	1.333	13.667	1.708
26	39606 116	.333	1.000	.667	1.000	1.000	.333	.333	.333	.333	5.000	.625
27	39607 117	1.000	.667	.667	.667	.333	.333	.667	.667	1.000	5.333	.667
28	39608 118	.333	1.000	.333	.333	.333	.667	.667	.333	1.000	4.667	.583
29	39609 119	1.000	.333	1.333	1.000	1.000	1.667	2.333	1.667	1.667	11.000	1.375
30	39610 120	1.667	.667	1.333	1.000	1.000	.667	.667	.667	.000	6.667	.833

APRIL 1967

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
		AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8	AP 9	AP 10	AP 11	AP 12	
1	39581	91	5	0	10	22	22	12	39	22	17.500			1.0
2	39582	92	3	4	7	27	22	15	9	7	11.750			.7
3	39583	93	15	5	3	3	2	3	3	5	4.875			.2
4	39584	94	4	27	12	7	48	9	7	6	15.000			.8
5	39585	95	7	12	15	15	12	12	7	6	10.750			.6
6	39586	96	12	15	16	12	15	12	5	5	11.750			.7
7	39587	97	12	15	7	5	4	6	12	4	8.125			.4
8	39588	98	6	6	6	5	3	5	6	4	5.125			.2
9	39589	99	15	0	3	6	4	2	3	7	5.000			.2
10	39590	100	6	7	3	3	5	5	9	5	5.375			.2
11	39591	101	2	2	2	5	4	4	5	5	3.625			.1
12	39592	102	9	15	3	2	2	2	0	3	4.500			.2
13	39593	103	3	3	2	0	2	2	3	5	2.500			.0
14	39594	104	3	2	5	3	3	4	3	3	3.250			.1
15	39595	105	4	2	3	2	4	4	6	5	3.750			.1
16	39596	106	4	9	7	9	12	15	18	6	10.000			.6
17	39597	107	22	27	5	12	6	3	3	6	10.500			.6
18	39598	108	7	6	5	4	6	6	5	18	7.125			.4
19	39599	109	27	32	27	22	15	12	15	12	20.250			1.0
20	39600	110	7	9	5	4	9	4	12	6	7.000			.4
21	39601	111	9	7	7	5	7	9	5	7	7.000			.4
22	39602	112	22	18	39	22	12	15	9	7	18.000			1.0
23	39603	113	15	6	4	6	18	56	48	18	21.375			1.1
24	39604	114	48	48	18	27	22	27	27	15	29.000			1.3
25	39605	115	18	18	6	6	3	4	3	5	7.875			.4
26	39606	116	2	4	3	4	4	2	2	2	2.875			.1
27	39607	117	4	3	3	2	2	3	3	4	3.000			.1
28	39608	118	2	4	2	2	3	3	2	4	2.750			.0
29	39609	119	4	2	5	4	6	9	6	6	5.250			.2
30	39610	120	6	3	5	4	3	3	3	0	3.375			.1

APRIL 1967

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			39581	91	1	158.0	152.1	154.4	151.2	1	105	99.8	104.8	104.0																		
			39582	92	1	141.0	151.7	153.9	151.2	1	82	97.0	103.8	103.7																		
			39583	93	1	133.0	150.5	153.6	151.1	1	63	94.3	102.9	103.3																		
			39584	94	1	124.0	149.2	153.1	150.0	1	60	92.9	102.0	102.9																		
			39585	95	1	122.0	147.8	152.7	150.6	1	68	92.2	101.4	102.7																		
			39586	96	1	118.0	146.6	152.3	150.5	1	72	91.5	101.0	102.8																		
			39587	97	1	126.0	146.0	152.1	150.5	1	86	91.4	101.1	103.2																		
			39588	98	1	135.0	146.0	152.2	150.7	1	108	92.8	101.7	103.3																		
			39589	99	1	132.0	146.1	152.2	150.8	1	88	94.1	102.2	104.0																		
			39590	100	1	129.0	146.1	152.2	150.9	1	68	94.8	102.4	103.8																		
			39591	101	1	130.0	146.0	152.2	150.9	1	62	95.1	102.5	103.4																		
			39592	102	1	129.0	145.9	152.3	150.8	1	51	94.9	102.3	102.5																		
			39593	103	1	126.0	145.6	152.3	150.5	1	63	94.5	102.2	101.6																		
			39594	104	1	132.0	145.6	152.4	150.3	1	48	93.5	101.8	100.3																		
			39595	105	1	125.0	145.0	152.3	149.9	1	51	92.7	101.4	99.4																		
			39596	106	1	125.0	144.4	152.1	149.7	1	32	90.7	100.5	98.2																		
			39597	107	1	124.0	143.6	151.7	149.2	1	42	88.8	99.6	97.0																		
			39598	108	1	127.0	142.7	151.2	148.0	1	58	87.0	99.2	96.1																		
			39599	109	1	125.0	141.6	150.5	148.3	1	56	84.9	99.4	95.3																		
			39600	110	1	125.0	140.2	149.8	147.9	1	52	82.4	97.4	94.4																		
			39601	111	1	132.0	138.9	149.0	147.5	1	64	79.7	96.3	93.6																		
			39602	112	1	130.0	137.5	148.0	147.1	1	76	77.6	94.2	93.1																		
			39603	113	1	126.0	136.1	147.0	146.7	1	98	76.7	93.0	93.2																		
			39604	114	1	129.0	134.2	145.7	146.5	1	83	75.0	91.3	93.1																		
			39605	115	1	131.0	132.4	144.4	146.4	1	95	73.3	89.6	93.0																		
			39606	116	1	123.0	130.5	143.0	145.2	1	66	70.8	87.3	92.6																		
			39607	117	1	127.0	129.0	141.5	145.9	1	66	68.6	85.3	92.6																		
			39608	118	1	133.0	128.0	140.6	145.6	1	81	67.7	83.8	92.5																		
			39609	119	1	135.0	127.0	139.8	145.2	1	79	67.6	82.3	91.7																		
			39610	120	1	133.0	127.8	139.1	145.0	1	73	68.0	81.1	91.3																		

69.5  
84.6

MONTHLY AVERAGE 129.4  
MONTHLY SMOOTHED 135.3

# QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOO. DAY JULIAN OF YEAR	KP	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP
1	39611 121	2.000	2.667	1.667	2.333	1.333	1.667	4.000	4.667	20.667	2.583	
2	39612 122	2.667	2.000	2.667	5.333	3.333	4.000	4.667	28.667	3.583		
3	39613 123	6.000	7.000	5.333	7.000	6.667	6.667	5.333	3.333	47.333	5.917	
4	39614 124	3.667	3.667	1.667	2.333	2.667	1.667	1.667	2.667	20.000	2.500	
5	39615 125	3.000	2.000	2.333	3.000	1.000	2.333	1.667	2.667	18.000	2.250	
6	39616 126	2.333	2.667	1.000	.667	1.000	1.333	1.333	2.000	12.333	1.542	
7	39617 127	3.333	4.667	4.667	3.000	1.000	.667	1.000	1.000	19.333	2.417	
8	39618 128	1.000	1.000	1.000	1.000	2.000	2.000	1.333	1.333	11.333	1.417	
9	39619 129	1.000	1.333	1.667	1.333	1.333	1.333	.667	1.000	9.667	1.208	
10	39620 130	1.333	1.667	1.333	1.333	2.667	2.000	2.000	2.000	14.333	1.792	
11	39621 131	3.667	3.000	1.667	1.333	1.000	1.667	1.667	3.333	17.333	2.167	
12	39622 132	3.333	4.000	1.333	2.333	1.333	1.667	3.000	3.333	20.333	2.542	
13	39623 133	3.333	4.667	2.667	1.667	2.000	2.000	2.667	2.667	21.000	2.625	
14	39624 134	2.667	1.667	1.333	1.000	2.333	2.667	3.000	3.000	17.667	2.208	
15	39625 135	3.333	1.333	.000	1.000	1.333	1.000	2.333	2.000	12.333	1.542	
16	39626 136	2.000	1.333	1.333	1.667	1.333	1.000	1.333	2.333	12.333	1.542	
17	39627 137	3.333	3.333	2.000	1.667	2.333	2.000	2.667	2.667	20.000	2.500	
18	39628 138	2.333	2.667	2.333	1.333	1.333	1.333	1.333	1.333	14.000	1.750	
19	39629 139	2.667	2.667	2.667	1.333	2.000	2.000	1.000	.667	15.000	1.875	
20	39630 140	2.333	1.333	1.333	1.000	.667	1.000	1.333	2.333	11.333	1.417	
21	39631 141	1.000	1.000	.333	1.000	.667	1.000	3.333	2.333	10.667	1.333	
22	39632 142	2.333	1.000	1.333	.667	.333	.333	.333	.000	6.333	.792	
23	39633 143	.667	1.667	1.000	1.333	1.000	1.667	4.000	3.333	14.667	1.833	
24	39634 144	1.667	1.333	1.667	1.667	2.333	3.333	4.333	2.333	18.667	2.333	
25	39635 145	1.667	2.000	1.000	5.333	8.333	7.333	7.333	9.000	42.333	5.292	
26	39636 146	9.000	0.667	7.333	6.667	6.667	3.667	4.000	4.667	50.667	6.333	
27	39637 147	4.000	3.333	3.333	2.333	3.000	1.667	4.333	4.333	26.333	3.292	
28	39638 148	2.667	2.667	4.333	5.667	5.667	6.667	6.000	5.333	39.000	4.875	
29	39639 149	5.667	6.667	6.000	4.000	5.000	2.667	2.000	2.333	34.333	4.292	
30	39640 150	1.667	2.000	2.333	1.667	5.667	5.000	6.333	5.667	31.333	3.717	
31	39641 151	7.000	6.333	5.000	2.000	1.333	3.667	4.333	2.000	31.667	3.958	

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

449



MAY 1967

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS---	1---RUNNING MEANS---	1---RUNNING MEANS---					
	DAY	YEAR	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY					
1	39611	121	134.0	128.2	138.7	144.8	1	81	58.8	80.8	90.9
2	39612	122	129.0	123.4	130.1	144.6	1	79	69.2	80.7	90.7
3	39613	123	126.0	128.7	137.7	144.5	1	62	68.8	80.1	90.3
4	39614	124	123.0	128.6	137.3	144.3	1	62	67.9	79.6	90.0
5	39615	125	125.0	128.3	137.1	144.2	1	68	66.4	79.6	89.9
6	39616	126	120.0	127.8	136.9	144.1	1	49	65.0	79.6	89.8
7	39617	127	117.0	127.4	136.7	143.9	1	41	64.0	79.4	89.6
8	39618	128	114.0	126.8	136.4	143.7	1	18	62.4	78.9	89.1
9	39619	129	111.0	126.1	136.0	143.6	1	25	61.4	78.1	88.7
10	39620	130	107.0	125.4	135.5	143.3	1	17	59.7	77.1	88.0
11	39621	131	104.0	124.4	135.0	143.1	1	25	58.9	76.2	87.5
12	39622	132	107.0	123.8	134.4	142.8	1	34	58.2	75.4	87.0
13	39623	133	105.0	123.0	133.7	142.4	1	34	58.3	74.5	86.4
14	39624	134	106.0	122.4	133.0	141.9	1	40	58.2	73.5	85.8
15	39625	135	108.0	121.7	132.2	141.4	1	43	57.7	72.3	85.3
16	39626	136	110.0	121.1	131.3	140.7	1	44	57.2	71.1	84.6
17	39627	137	112.0	120.6	130.4	140.1	1	44	56.9	69.6	83.9
18	39628	138	121.0	120.2	129.5	139.4	1	55	56.6	68.2	83.0
19	39629	139	132.0	123.3	128.9	138.8	1	70	56.4	67.0	81.6
20	39630	140	142.0	120.9	128.5	138.3	1	80	55.7	66.2	80.5
21	39631	141	156.0	121.9	128.1	137.8	1	99	56.3	65.7	79.6
22	39632	142	178.0	123.6	128.0	137.5	1	118	57.5	65.4	78.9
23	39633	143	189.0	126.1	128.3	137.4	1	145	60.4	65.6	78.3
24	39634	144	195.0	128.6	129.8	137.2	1	159	63.9	66.3	78.2
25	39635	145	205.0	131.3	129.6	137.5	1	164	67.0	67.4	78.2
26	39636	146	213.0	134.1	131.0	137.9	1	174	70.5	69.1	78.4
27	39637	147	206.0	136.9	132.4	138.4	1	194	75.0	71.5	79.1
28	39638	148	197.0	139.3	133.7	138.9	1	197	79.3	74.0	80.3
29	39639	149	183.0	141.3	134.9	139.2	1	164	82.4	75.8	81.3
30	39640	150	172.0	143.0	135.9	139.4	1	150	85.7	77.2	82.0
31	39641	151	170.0	144.7	136.7	139.8	1	147	88.8	78.4	82.7

MONTHLY AVERAGE 142.5  
MONTHLY SMOOTHED 130.386.5  
87.5

JUNE 1967

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOJ. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG, KP
1	39642 152	1.000	.667	.333	1.000	1.333	.667	1.333	1.333	.667	7.000	.375
2	39643 153	1.000	1.000	1.333	2.667	2.000	3.333	3.000	2.000	2.000	16.333	2.042
3	39644 154	2.333	2.333	1.667	1.000	1.000	2.333	2.000	1.333	1.333	14.000	1.750
4	39645 155	2.000	.667	.667	2.000	4.000	2.667	3.667	3.667	3.667	19.333	2.417
5	39646 156	2.667	1.000	1.333	3.333	3.333	2.000	6.333	7.000	7.000	27.000	3.375
6	39647 157	8.000	5.000	2.000	1.667	2.333	2.000	4.333	5.000	5.000	30.333	3.792
7	39648 158	6.667	4.000	3.667	1.333	1.000	.667	.667	.667	.667	18.667	2.333
8	39649 159	.667	1.000	1.667	4.000	3.667	2.667	4.000	3.667	3.667	21.333	2.667
9	39650 160	3.333	3.333	3.000	2.667	2.333	1.000	1.667	4.333	4.333	21.667	2.708
10	39651 161	3.000	1.667	2.667	1.000	.667	1.000	1.000	1.000	1.333	12.333	1.542
11	39652 162	.667	1.000	.333	.333	1.333	2.333	3.000	3.000	1.000	10.000	1.250
12	39653 163	1.000	1.000	1.000	1.000	2.000	1.333	1.000	1.000	2.000	10.333	1.292
13	39654 164	2.667	1.667	1.667	1.000	1.000	1.667	1.667	1.667	1.333	12.667	1.583
14	39655 165	3.333	2.667	2.667	2.000	4.000	2.000	3.000	3.333	3.333	23.000	2.875
15	39656 166	4.333	2.667	2.333	.667	1.000	1.000	1.333	1.333	1.333	14.667	1.933
16	39657 167	1.333	1.000	2.000	2.000	1.667	1.667	1.333	1.333	1.333	12.333	1.542
17	39658 168	1.667	.667	1.667	2.333	2.000	3.333	2.000	3.333	3.333	17.000	2.125
18	39659 169	2.667	1.000	1.000	.333	.333	.667	.333	.333	.667	7.000	.875
19	39660 170	1.000	.333	.333	.333	2.333	2.667	1.333	.667	.667	9.000	1.125
20	39661 171	.667	1.333	2.000	.667	1.000	.667	.667	.667	.667	7.667	.958
21	39662 172	.333	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.333	8.667	1.083
22	39663 173	.333	1.333	2.000	2.000	2.333	1.000	1.000	.333	.333	10.333	1.292
23	39664 174	.667	1.333	1.000	.333	.333	1.000	1.000	2.000	2.000	7.667	.958
24	39665 175	.667	.667	1.333	.667	.667	.333	1.000	1.000	1.667	7.000	.875
25	39666 176	2.667	2.000	2.667	2.000	2.000	4.667	5.333	5.000	5.000	26.333	3.292
26	39667 177	6.000	3.667	2.667	2.333	2.000	4.333	3.333	3.000	3.000	27.333	3.417
27	39668 178	4.333	5.000	3.333	3.667	1.000	2.000	3.000	2.333	2.333	24.667	3.083
28	39669 179	3.000	1.333	1.000	3.333	2.333	2.333	3.333	1.000	1.000	16.667	2.083
29	39670 180	.333	2.000	3.667	1.000	1.667	3.333	2.000	2.000	2.000	16.000	2.000
30	39671 181	3.333	2.333	3.333	3.000	2.667	2.333	3.000	3.000	3.000	23.000	2.875

### PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY												MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	9	10	11	12	
1	39642	152	4	3	2	4	4	5	3	3	5	3	3.625	.1
2	39643	153	4	4	5	12	7	18	15	7	15	7	9.000	.5
3	39644	154	9	9	6	4	4	4	7	5	7	5	6.625	.3
4	39645	155	7	3	3	7	7	27	12	22	22	22	12.875	.7
5	39646	156	12	4	5	18	10	7	94	132	36.250	1.4	36.250	1.4
6	39647	157	207	48	7	6	9	7	32	48	45.500	1.5	45.500	1.5
7	39648	158	111	27	22	5	4	3	3	3	22.250	1.1	22.250	1.1
8	39649	159	3	4	6	27	22	12	27	22	15.375	.9	15.375	.9
9	39650	160	18	18	15	12	9	4	6	32	14.250	.8	14.250	.8
10	39651	161	15	6	12	4	3	4	4	5	6.625	.3	6.625	.3
11	39652	162	3	4	2	2	5	9	15	4	5.500	.2	5.500	.2
12	39653	163	4	4	4	4	7	5	4	7	4.875	.2	4.875	.2
13	39654	164	12	6	6	4	4	6	6	5	6.125	.3	6.125	.3
14	39655	165	18	12	12	7	27	7	15	18	14.500	.8	14.500	.8
15	39656	166	32	12	9	3	4	4	5	5	9.250	.5	9.250	.5
16	39657	167	5	4	7	7	6	6	5	5	5.625	.3	5.625	.3
17	39658	168	6	3	6	9	7	18	7	18	9.250	.5	9.250	.5
18	39659	169	12	4	4	2	2	3	2	3	4.000	.1	4.000	.1
19	39660	170	4	2	2	2	9	12	5	3	4.875	.2	4.875	.2
20	39661	171	3	5	7	3	4	3	3	3	3.875	.1	3.875	.1
21	39662	172	2	4	7	4	4	4	4	5	4.250	.1	4.250	.1
22	39663	173	2	5	7	7	9	4	4	2	5.000	.2	5.000	.2
23	39664	174	3	5	4	2	2	4	4	7	3.875	.1	3.875	.1
24	39665	175	3	3	5	3	3	2	4	6	3.625	.1	3.625	.1
25	39666	176	12	7	12	7	7	39	56	48	23.500	1.1	23.500	1.1
26	39667	177	80	22	12	9	7	32	18	15	24.375	1.2	24.375	1.2
27	39668	178	32	48	18	22	4	7	15	9	19.375	1.0	19.375	1.0
28	39669	179	15	5	4	18	9	5	18	4	9.750	.5	9.750	.5
29	39670	180	2	7	22	4	6	18	7	7	9.125	.5	9.125	.5
30	39671	181	18	9	18	15	12	7	15	15	13.875	.8	13.875	.8

JUNE 1967

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1
		DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY
1	39642 152	1 169.3	137.3	140.2	1 130 91.4 78.9 83.6
2	39643 153	1 153.3	137.6	140.5	1 118 94.0 79.5 84.4
3	39644 154	1 146.3	138.0	140.7	1 102 96.2 80.1 85.0
4	39645 155	1 144.0	138.3	140.8	1 104 99.4 80.9 85.6
5	39646 156	1 134.0	138.4	140.9	1 70 101.8 81.6 86.0
6	39647 157	1 126.3	138.4	140.8	1 80 104.1 81.9 86.1
7	39648 158	1 115.0	138.0	140.5	1 59 105.4 82.1 85.9
8	39649 159	1 105.3	137.7	140.2	1 43 105.7 82.0 85.5
9	39650 160	1 100.0	137.3	139.7	1 26 105.4 81.9 84.8
10	39651 161	1 94.0	136.7	139.0	1 21 104.7 81.5 83.9
11	39652 162	1 94.0	136.1	138.3	1 20 103.9 80.8 82.8
12	39653 163	1 93.0	135.5	137.5	1 19 103.0 80.1 81.7
13	39654 164	1 96.0	135.0	136.7	1 19 102.0 79.5 80.4
14	39655 165	1 100.0	134.4	135.8	1 20 100.7 78.7 79.1
15	39656 166	1 103.0	133.9	135.1	1 35 99.4 77.9 77.8
16	39657 167	1 108.0	133.5	134.4	1 41 98.0 76.9 76.8
17	39658 168	1 108.3	133.1	133.5	1 57 96.4 76.4 75.9
18	39659 169	1 111.5	132.8	132.7	1 64 94.4 76.3 75.1
19	39660 170	1 115.0	132.6	131.9	1 67 91.6 76.0 74.3
20	39661 171	1 117.0	132.4	131.3	1 84 88.8 76.3 73.8
21	39662 172	1 119.3	132.2	130.8	1 79 85.6 76.3 73.4
22	39663 173	1 125.0	129.9	130.6	1 83 82.3 76.4 73.5
23	39664 174	1 128.0	126.9	130.5	1 80 78.0 76.5 73.7
24	39665 175	1 128.0	124.3	131.8	1 99 74.4 76.3 74.1
25	39666 176	1 124.0	122.3	131.8	1 96 71.9 77.1 74.5
26	39667 177	1 123.0	120.5	131.7	1 79 69.3 77.5 74.6
27	39668 178	1 127.0	118.9	131.8	1 61 66.1 77.4 74.3
28	39669 179	1 132.0	117.5	131.9	1 80 63.9 77.7 73.9
29	39670 180	1 129.0	116.6	132.1	1 65 62.0 78.0 73.6
30	39671 181	1 122.0	115.7	132.2	1 89 61.5 78.9 73.9

MONTHLY AVERAGE 119.8  
MONTHLY SMOOTHED 141.2

67.3  
91.3

JULY 1967

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39672 182	2.667	2.667	2.667	4.000	4.000	2.667	3.333	3.333	2.000	24.667	3.093
2	39673 183	3.333	3.333	3.000	1.333	.333	.667	.333	.667	1.667	11.333	1.417
3	39674 184	1.333	1.333	.667	.333	.333	.333	.667	1.667	1.333	6.667	.833
4	39675 185	1.333	1.333	1.667	1.000	1.333	.667	2.000	1.333	3.000	12.333	1.542
5	39676 186	3.333	3.333	2.667	3.667	4.000	3.333	2.667	1.667	2.667	24.000	3.000
6	39677 187	1.000	1.000	1.000	.333	1.000	3.000	2.000	2.333	3.667	14.333	1.792
7	39678 188	4.333	4.333	4.000	2.000	1.333	2.000	1.333	1.667	1.333	18.000	2.250
8	39679 189	1.667	1.667	1.333	.333	1.333	1.000	1.000	.667	.333	7.667	.958
9	39680 190	.333	.333	.667	.667	.333	.667	1.000	1.333	1.000	6.000	.750
10	39681 191	.333	.333	.333	1.000	.667	1.000	.333	1.000	1.667	6.333	.792
11	39682 192	4.000	4.000	3.000	3.333	2.667	4.000	3.667	4.333	3.000	28.000	3.500
12	39683 193	2.667	2.667	2.667	2.667	2.000	1.333	2.000	1.667	1.667	16.667	2.083
13	39684 194	2.000	2.000	1.333	1.000	.667	.667	1.000	2.667	3.000	12.333	1.542
14	39685 195	1.667	2.333	2.333	2.667	2.000	2.333	1.000	1.000	1.333	14.333	1.792
15	39686 196	.667	.667	.667	.667	.333	2.333	3.000	3.667	1.667	17.000	1.625
16	39687 197	1.333	2.667	2.667	.667	.667	.333	.667	.667	1.000	8.000	1.000
17	39688 198	1.000	.667	.667	.333	.667	1.000	1.000	2.333	2.000	9.000	1.125
18	39689 199	1.667	1.667	2.000	2.000	2.333	2.667	1.333	1.000	2.000	14.667	1.833
19	39690 200	2.667	.667	.667	.333	.333	1.000	1.000	1.000	1.333	8.333	1.042
20	39691 201	1.667	1.000	1.000	1.000	1.000	2.000	1.333	1.000	1.667	10.667	1.333
21	39692 202	1.000	1.333	1.333	1.667	1.333	1.000	1.000	1.667	1.000	10.000	1.250
22	39693 203	.667	1.000	.667	.667	.667	.667	.667	1.000	1.000	6.333	.792
23	39694 204	.667	.667	.667	1.333	1.333	2.000	3.000	4.667	4.667	18.333	2.292
24	39695 205	2.667	2.333	2.333	1.333	1.667	1.000	1.333	2.667	1.667	15.667	1.958
25	39696 206	1.333	1.333	1.333	2.000	2.667	1.333	3.000	4.000	2.333	18.000	2.250
26	39697 207	2.667	2.000	.667	.667	1.333	1.667	2.000	.667	.667	11.667	1.458
27	39698 208	.333	.333	1.667	1.667	1.667	.667	.667	2.000	1.333	8.667	1.083
28	39699 209	2.333	1.333	1.667	1.667	1.667	3.000	4.000	3.333	2.000	19.333	2.417
29	39700 210	3.333	3.667	2.667	2.667	1.333	.333	1.667	2.000	4.000	19.000	2.375
30	39701 211	4.333	5.000	4.667	4.667	1.333	1.000	.333	.667	.333	17.667	2.208
31	39702 212	.333	.333	.333	.333	.000	.333	.333	.333	.333	2.333	.292

JULY 1967

GEOMAGNETIC PLANETARY INDICES  
PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	AP												MAGNETIC CHARACTER	
		1	2	3	4	5	6	7	8	9	10	11	12	AP	AP
1	39672	182	12	12	27	27	12	18	18	7	16.625	7	16.625	7	16.625
2	39673	183	16	15	5	2	3	2	3	6	6.750	6	6.750	6	6.750
3	39674	184	5	3	2	2	2	3	6	5	3.500	5	3.500	5	3.500
4	39675	185	5	6	4	5	3	7	5	15	6.250	15	6.250	15	6.250
5	39676	186	18	12	22	27	18	12	6	12	15.875	12	15.875	12	15.875
6	39677	187	4	4	2	4	15	7	9	22	8.375	22	8.375	22	8.375
7	39678	188	32	27	7	5	7	5	6	5	11.750	5	11.750	5	11.750
8	39679	189	6	5	2	5	4	4	3	2	3.875	2	3.875	2	3.875
9	39680	190	2	3	3	2	3	4	5	4	3.250	4	3.250	4	3.250
10	39681	191	2	2	4	3	4	2	4	6	3.375	6	3.375	6	3.375
11	39682	192	27	15	18	12	27	22	32	15	21.000	15	21.000	15	21.000
12	39683	193	12	12	12	7	5	7	6	6	8.375	6	8.375	6	8.375
13	39684	194	7	5	4	3	3	4	12	15	6.625	15	6.625	15	6.625
14	39685	195	6	9	12	7	9	4	4	5	7.000	5	7.000	5	7.000
15	39686	196	3	3	3	2	9	15	22	6	7.875	6	7.875	6	7.875
16	39687	197	5	12	3	3	2	3	3	4	4.375	4	4.375	4	4.375
17	39688	198	4	3	2	3	4	4	9	7	4.500	7	4.500	7	4.500
18	39689	199	6	6	7	9	12	5	4	7	7.000	7	7.000	7	7.000
19	39690	200	12	3	2	2	4	4	4	5	4.500	5	4.500	5	4.500
20	39691	201	6	4	4	4	7	5	4	6	5.000	6	5.000	6	5.000
21	39692	202	4	5	6	5	4	4	6	4	4.750	4	4.750	4	4.750
22	39693	203	3	4	3	3	3	3	4	4	3.375	4	3.375	4	3.375
23	39694	204	3	3	5	5	7	15	39	39	14.500	39	14.500	39	14.500
24	39695	205	12	9	9	6	4	5	12	6	7.875	6	7.875	6	7.875
25	39696	206	5	5	7	12	5	15	27	9	10.625	9	10.625	9	10.625
26	39697	207	12	7	3	5	6	3	3	3	5.750	3	5.750	3	5.750
27	39698	208	2	2	6	6	3	3	7	5	4.250	5	4.250	5	4.250
28	39699	209	9	5	4	6	15	27	18	7	11.625	7	11.625	7	11.625
29	39700	210	18	22	12	5	2	6	7	27	12.375	27	12.375	27	12.375
30	39701	211	32	43	39	5	4	2	3	2	16.875	2	16.875	2	16.875
31	39702	212	2	2	2	0	2	2	2	2	1.750	2	1.750	2	1.750

JULY 1967

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1				1-----RELATIVE ZURICH SUNSPOT NUMBER-----1				
		1-----RUNNING MEANS-----1				1-----RUNNING MEANS-----1				
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	39672 182	1 120.0	114.9	132.3	130.5	1 85	60.8	80.1	74.2	
2	39673 183	1 121.0	114.4	132.5	130.4	1 89	60.7	81.3	74.7	
3	39674 184	1 125.0	114.3	132.8	130.3	1 92	61.2	82.7	75.0	
4	39675 185	1 123.0	114.6	133.2	130.2	1 95	62.5	84.0	75.6	
5	39676 186	1 119.0	115.1	133.4	130.2	1 98	64.6	85.1	76.2	
6	39677 187	1 112.0	115.6	133.5	130.0	1 97	67.2	86.3	77.0	
7	39678 188	1 112.0	116.2	133.6	129.9	1 82	69.4	87.1	77.5	
8	39679 189	1 108.0	116.7	133.6	129.6	1 82	71.7	87.8	77.8	
9	39680 190	1 106.0	117.2	133.6	129.4	1 84	74.1	88.6	78.1	
10	39681 191	1 102.0	117.4	133.4	129.1	1 67	75.9	89.0	78.3	
11	39682 192	1 103.0	117.6	133.0	128.8	1 53	77.1	89.9	78.2	
12	39683 193	1 102.0	117.5	132.5	128.4	1 60	78.1	88.8	78.0	
13	39684 194	1 110.0	117.6	131.9	128.2	1 53	78.5	88.3	77.4	
14	39685 195	1 118.0	118.0	131.2	128.1	1 70	79.0	87.7	77.2	
15	39686 196	1 123.0	118.4	130.2	128.0	1 67	79.9	87.1	77.3	
16	39687 197	1 125.0	118.8	129.0	128.0	1 80	80.3	85.9	77.4	
17	39688 198	1 125.0	119.1	127.7	128.0	1 75	80.0	84.4	77.6	
18	39689 199	1 127.0	119.4	126.2	127.9	1 78	80.0	82.8	77.5	
19	39690 200	1 124.0	119.3	124.6	127.8	1 62	79.2	80.7	77.3	
20	39691 201	1 131.0	119.4	123.2	127.8	1 42	77.8	77.9	76.9	
21	39692 202	1 135.0	119.7	122.0	127.8	1 63	76.4	75.4	76.7	
22	39693 203	1 147.0	120.4	121.4	128.0	1 73	75.6	73.7	76.6	
23	39694 204	1 156.0	121.6	121.1	128.4	1 93	76.1	72.7	77.0	
24	39695 205	1 170.0	123.2	121.1	128.9	1 98	77.5	71.8	77.5	
25	39696 206	1 189.0	125.3	121.4	129.7	1 108	78.5	71.2	78.0	
26	39697 207	1 193.0	127.7	122.2	130.6	1 118	80.5	71.2	78.8	
27	39698 208	1 206.0	130.8	123.3	131.7	1 123	81.7	71.6	79.8	
28	39699 209	1 206.0	134.0	124.4	132.9	1 157	84.4	72.6	81.5	
29	39700 210	1 209.0	137.3	125.8	134.1	1 155	86.9	73.8	83.1	
30	39701 211	1 205.0	140.2	127.3	135.3	1 165	89.6	75.4	85.0	
31	39702 212	1 183.0	142.4	120.5	136.3	1 152	91.7	77.1	86.5	

MONTHLY AVERAGE 139.8  
MONTHLY SMOOTHED 144.5

91.5  
74.1

AUGUST 1967

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MON. DAY JULIAN .OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39703 213	.667	.667	.667	.333	1.667	1.000	1.667	1.333	.333	7.667	.958
2	39704 214	.333	.333	.333	.000	1.333	.333	.333	.333	1.333	4.333	.542
3	39705 215	.000	.333	.333	.333	.333	1.000	1.000	1.000	2.000	6.000	.750
4	39706 216	1.000	.667	2.333	1.000	1.000	3.000	3.000	2.333	1.667	15.000	1.875
5	39707 217	3.333	1.333	1.333	2.000	2.333	2.333	2.333	1.667	1.000	15.333	1.917
6	39708 218	.667	2.000	1.333	2.000	1.000	1.000	.667	2.333	2.333	12.333	1.542
7	39709 219	2.667	.667	2.333	2.000	1.333	1.333	1.000	3.000	3.333	16.333	2.042
8	39710 220	3.667	2.000	3.000	2.333	2.000	2.000	1.667	2.000	2.667	19.333	2.417
9	39711 221	1.333	.667	1.000	1.333	1.333	2.667	3.000	1.000	1.667	12.667	1.583
10	39712 222	2.333	3.000	2.000	2.000	3.000	3.333	2.333	2.000	3.667	21.667	2.708
11	39713 223	3.000	3.000	3.667	3.000	3.000	3.667	5.000	4.333	4.000	29.667	3.700
12	39714 224	3.667	1.333	2.333	1.333	1.333	1.333	1.000	1.333	2.000	14.333	1.792
13	39715 225	1.000	.667	.333	.333	1.000	1.667	2.333	2.000	2.667	11.667	1.458
14	39716 226	2.333	2.667	3.667	2.333	2.333	1.333	.667	2.000	2.333	17.333	2.167
15	39717 227	1.333	1.667	1.333	1.333	2.333	2.333	1.000	1.667	2.000	13.667	1.708
16	39718 228	2.000	1.000	1.333	2.333	2.333	2.000	2.333	2.000	3.333	16.333	2.042
17	39719 229	3.000	3.333	2.667	5.000	3.667	3.667	3.333	2.000	2.333	25.333	3.167
18	39720 230	3.667	2.667	3.667	2.333	3.000	3.000	2.333	3.000	2.667	23.333	2.917
19	39721 231	2.333	2.333	2.667	1.667	2.000	2.000	2.000	3.000	2.000	18.000	2.250
20	39722 232	2.000	2.667	2.667	2.667	2.333	2.333	3.000	1.667	2.667	19.667	2.458
21	39723 233	2.000	1.333	1.667	1.667	2.000	2.000	1.333	1.667	1.000	12.667	1.583
22	39724 234	1.333	1.333	1.000	1.333	1.333	1.333	1.667	1.000	1.667	10.667	1.333
23	39725 235	1.333	1.667	1.000	1.333	.667	.667	1.000	2.667	.667	10.333	1.292
24	39726 236	2.667	1.000	1.667	2.333	2.000	2.000	2.000	1.667	2.000	15.333	1.917
25	39727 237	2.000	2.667	3.000	3.000	2.333	2.333	3.000	3.000	4.000	23.000	2.675
26	39728 238	3.000	1.000	2.000	1.667	1.667	1.667	2.333	3.000	3.000	17.667	2.208
27	39729 239	2.000	2.333	1.667	2.333	1.667	1.667	1.667	1.333	2.333	15.333	1.917
28	39730 240	1.667	1.667	1.333	1.000	1.333	1.333	2.333	1.667	1.333	12.333	1.542
29	39731 241	2.667	1.333	2.000	1.667	2.000	2.000	1.667	1.667	2.667	15.333	1.917
30	39732 242	1.000	3.000	3.000	1.667	2.000	2.000	1.667	3.000	3.000	18.333	2.292
31	39733 243	3.333	2.000	3.333	2.333	2.667	2.667	2.333	1.333	2.333	19.667	2.458



**MAGNETIC  
CHARACTER-**

DAY OF MONTH	MOD. JULIAN DAY	DAY								MAGNETIC CHARACTER		
		AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	AP 7	AP 8			
1	39703	213	3	3	2	6	4	6	5	2	3.875	.1
2	39704	214	2	2	0	5	2	2	2	5	2.500	.0
3	39705	215	0	2	2	2	4	4	4	7	3.125	.1
4	39706	216	4	3	9	4	15	9	9	6	8.125	.4
5	39707	217	18	5	5	7	9	9	6	4	7.875	.4
6	39708	218	3	7	5	7	4	3	9	9	5.875	.3
7	39709	219	12	3	9	7	5	4	15	18	9.125	.5
8	39710	220	22	7	15	9	7	6	7	12	10.625	.6
9	39711	221	5	3	4	5	12	15	4	6	6.750	.3
10	39712	222	9	15	7	15	18	9	7	22	12.750	.7
11	39713	223	15	15	22	15	22	48	32	27	24.500	1.2
12	39714	224	22	5	9	5	5	4	5	7	7.750	.4
13	39715	225	4	3	2	4	6	9	7	12	5.875	.3
14	39716	226	9	12	22	9	5	3	7	9	9.500	.5
15	39717	227	5	6	5	9	9	4	6	7	6.375	.3
16	39718	228	7	4	5	9	7	9	7	18	8.250	.4
17	39719	229	15	18	12	48	22	18	7	9	18.625	1.0
18	39720	230	22	12	22	9	15	9	15	12	14.500	.8
19	39721	231	9	9	12	6	7	7	15	7	9.000	.5
20	39722	232	7	12	12	12	9	15	6	12	10.625	.6
21	39723	233	7	5	6	6	7	5	6	4	5.750	.3
22	39724	234	5	5	4	5	5	5	6	6	5.000	.2
23	39725	235	5	6	4	5	3	4	12	3	5.250	.2
24	39726	236	12	4	6	9	7	7	6	7	7.250	.4
25	39727	237	7	12	15	15	9	15	15	27	14.375	.3
26	39728	238	15	4	7	6	6	9	15	15	9.625	.5
27	39729	239	7	9	6	9	6	6	5	9	7.125	.4
28	39730	240	6	6	5	4	5	9	6	5	5.750	.3
29	39731	241	12	5	7	5	7	6	6	12	7.500	.4
30	39732	242	4	15	15	6	7	6	15	15	10.375	.6
31	39733	243	16	7	18	9	12	9	5	9	10.875	.6

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	SOLAR FLUX (10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER				
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY		
1	39703	213	171.0	144.4	129.7	137.0	139	93.2	78.9	87.8
2	39704	214	161.0	146.2	130.9	137.7	126	94.3	60.7	39.0
3	39705	215	158.0	147.9	132.1	138.4	113	95.4	82.4	89.9
4	39706	216	145.0	149.3	133.0	138.8	95	95.9	83.3	90.5
5	39707	217	151.0	150.9	134.1	139.3	103	96.6	85.4	91.2
6	39708	218	151.0	152.7	135.1	139.8	105	98.0	87.0	92.0
7	39709	219	146.0	154.3	135.9	140.1	98	99.7	88.4	92.5
8	39710	220	139.0	155.7	136.6	140.2	119	101.9	90.0	93.1
9	39711	221	137.0	156.7	137.1	140.2	107	103.9	91.2	93.5
10	39712	222	133.0	157.3	137.6	139.9	91	104.7	91.9	93.4
11	39713	223	132.0	157.6	138.0	139.3	94	104.9	92.4	93.1
12	39714	224	135.0	158.0	138.4	138.6	77	104.8	92.6	92.2
13	39715	225	134.0	158.3	138.7	137.9	75	104.8	92.4	91.2
14	39716	226	128.0	158.3	138.8	136.9	66	104.4	92.2	90.0
15	39717	227	124.0	158.3	138.8	135.8	61	104.3	91.8	88.6
16	39718	228	129.0	158.2	138.8	134.8	77	105.6	91.7	87.1
17	39719	229	144.0	158.5	139.1	134.2	95	106.8	91.6	85.9
18	39720	230	153.0	158.7	139.6	133.8	114	108.3	92.0	85.3
19	39721	231	168.0	159.2	140.4	133.8	110	109.0	92.5	84.8
20	39722	232	168.0	159.1	141.2	133.7	113	109.5	93.5	84.4
21	39723	233	174.0	158.6	141.9	133.8	120	110.0	94.2	84.1
22	39724	234	174.0	157.9	142.8	134.1	123	110.1	95.3	84.2
23	39725	235	174.0	156.7	143.7	134.4	122	110.1	95.9	84.4
24	39726	236	168.0	155.2	144.5	134.7	122	108.8	94.7	84.7
25	39727	237	167.0	153.6	145.4	135.1	130	107.9	97.4	85.2
26	39728	238	168.0	152.3	146.2	135.6	125	106.4	98.0	85.7
27	39729	239	167.0	151.7	147.1	136.2	121	105.3	98.5	86.5
28	39730	240	166.0	151.5	147.9	137.0	119	104.5	98.9	87.4
29	39731	241	169.0	151.8	149.0	137.8	111	104.0	99.1	88.5
30	39732	242	161.0	151.9	149.9	138.7	121	104.3	99.8	89.7
31	39733	243	162.0	152.5	150.9	139.5	129	105.5	100.7	91.0

MONTHLY AVERAGE	153.3
MONTHLY SMOOTHED	147.4

107.2  
95.3

SEPTEMBER 1967

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39734 244	3.333	3.333	4.667	2.333	4.333	3.000	4.000	4.667	29.667	3.708
2	39735 245	4.000	3.000	4.000	4.333	3.000	3.667	1.667	1.000	24.667	3.083
3	39736 246	1.000	.667	1.667	2.000	1.333	1.667	1.333	2.333	12.000	1.500
4	39737 247	1.667	2.333	2.667	1.333	1.667	1.000	1.333	.667	12.667	1.583
5	39738 248	1.667	1.000	1.667	.667	.667	.333	.667	.333	7.000	.875
6	39739 249	1.667	2.000	.333	1.000	.667	1.000	1.333	1.333	9.333	1.167
7	39740 250	1.333	1.000	1.667	.667	2.333	4.333	1.667	1.000	14.000	1.750
8	39741 251	1.667	.333	.667	2.000	3.000	2.333	3.333	3.000	16.333	2.042
9	39742 252	3.333	3.667	1.667	2.667	1.667	.667	2.667	2.000	18.333	2.292
10	39743 253	2.333	1.333	.333	.333	.667	.333	.333	.333	6.000	.750
11	39744 254	.667	.333	.333	1.333	.667	.333	.333	.333	4.333	.542
12	39745 255	.333	.667	.333	.667	2.000	1.000	1.667	1.000	7.667	.958
13	39746 256	1.667	4.000	4.667	5.000	3.333	5.000	4.333	3.000	31.000	3.875
14	39747 257	2.333	1.667	3.000	3.000	3.333	3.000	3.333	3.000	22.667	2.833
15	39748 258	3.333	3.667	4.333	1.667	.667	1.333	3.333	2.333	20.667	2.583
16	39749 259	3.667	3.667	1.000	1.667	2.333	2.667	1.333	1.667	18.000	2.250
17	39750 260	2.000	2.000	1.333	.667	1.333	1.667	1.333	1.333	11.667	1.458
18	39751 261	1.667	.667	.667	2.667	3.667	2.667	3.667	2.667	18.333	2.292
19	39752 262	4.667	3.000	3.333	2.000	3.333	2.000	4.000	3.000	25.333	3.167
20	39753 263	3.667	4.000	4.667	4.667	5.333	5.667	5.000	5.333	38.333	4.792
21	39754 264	7.000	7.333	5.667	5.667	5.000	6.667	5.333	5.000	47.667	5.958
22	39755 265	4.000	3.333	.667	1.000	2.000	2.333	2.000	.333	15.667	1.950
23	39756 266	.333	.667	1.000	1.333	1.667	.667	.333	.667	6.667	.833
24	39757 267	.667	1.000	.667	2.000	1.667	2.333	2.333	2.333	13.000	1.625
25	39758 268	2.333	.333	1.000	.667	.667	1.000	2.333	3.000	11.333	1.417
26	39759 269	.667	.333	1.333	.333	.333	.667	2.667	2.000	8.333	1.042
27	39760 270	2.000	1.333	.667	.667	1.667	1.333	1.000	1.000	9.667	1.208
28	39761 271	2.000	4.667	5.000	5.333	3.667	4.333	5.000	4.333	34.333	4.292
29	39762 272	5.333	5.333	5.333	4.667	4.000	4.667	5.000	4.667	39.000	4.875
30	39763 273	5.000	4.333	4.667	4.667	5.333	5.000	2.000	2.333	33.333	4.167

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

4:61

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			39734	244	1	157.0	152.7	151.9	140.3	1	123	106.3	101.4	92.3																		
			39735	245	1	153.0	152.8	152.8	141.0	1	115	106.6	102.3	93.5																		
			39736	246	1	144.0	152.7	153.5	141.5	1	119	107.4	103.5	94.7																		
			39737	247	1	138.0	152.7	154.2	142.0	1	121	107.4	104.7	95.8																		
			39738	248	1	136.0	152.7	154.7	142.3	1	125	108.1	106.0	96.8																		
			39739	249	1	131.0	152.6	154.9	142.6	1	120	109.2	106.9	97.6																		
			39740	250	1	126.0	152.4	155.0	142.8	1	109	109.7	107.3	98.2																		
			39741	251	1	131.0	152.2	155.1	143.0	1	104	110.7	107.8	98.6																		
			39742	252	1	129.0	152.0	155.2	143.1	1	99	111.6	108.2	98.8																		
			39743	253	1	131.0	152.2	155.2	143.3	1	95	112.7	108.5	99.0																		
			39744	254	1	130.0	152.4	155.4	143.3	1	77	113.3	108.8	98.9																		
			39745	255	1	130.0	152.5	155.3	143.4	1	79	113.4	109.5	98.9																		
			39746	256	1	126.0	151.8	155.2	143.3	1	65	112.3	109.5	98.5																		
			39747	257	1	126.0	150.8	154.8	143.3	1	51	109.9	109.1	98.0																		
			39748	258	1	129.0	149.4	154.3	143.4	1	36	107.2	108.1	97.4																		
			39749	259	1	125.0	147.8	153.4	143.4	1	39	104.4	107.0	97.1																		
			39750	260	1	125.0	146.0	152.3	143.3	1	44	101.6	105.8	96.7																		
			39751	261	1	127.0	144.2	151.0	143.3	1	50	98.9	104.5	96.5																		
			39752	262	1	126.0	142.4	149.6	143.3	1	59	96.6	103.4	96.1																		
			39753	263	1	129.0	141.1	148.1	143.4	1	63	94.4	101.6	95.9																		
			39754	264	1	125.0	139.5	146.6	143.5	1	67	92.1	100.0	95.6																		
			39755	265	1	123.0	137.9	145.1	143.4	1	62	89.7	98.1	95.2																		
			39756	266	1	122.0	136.2	143.9	143.4	1	55	87.3	96.3	94.7																		
			39757	267	1	131.0	134.9	143.2	143.6	1	51	84.8	94.6	94.2																		
			39758	268	1	133.0	133.6	142.7	143.8	1	61	82.9	93.4	93.7																		
			39759	269	1	133.0	132.5	142.2	144.1	1	53	90.4	92.3	93.4																		
			39760	270	1	136.0	131.6	142.0	144.4	1	50	77.5	91.5	93.0																		
			39761	271	1	134.0	130.7	141.7	144.8	1	71	75.6	90.9	92.8																		
			39762	272	1	131.0	129.9	141.4	145.1	1	66	73.7	90.2	92.8																		
			39763	273	1	131.0	129.4	141.1	145.5	1	74	72.1	89.7	93.0																		

MONTHLY AVERAGE 131.6  
MONTHLY SMOOTHED 147.8

76.8  
95.3

OCTOBER 1967

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	KP	3	KP	4	KP	5	KP	6	KP	7	KP	8	SUM KP	AVG. KP
1	39764 274	4.000	2.333	2.333	2.333	3.000	2.333	1.333	1.333	2.333	1.333	1.333	1.333	1.333	1.333	.000	16.667	2.083
2	39765 275	1.000	1.000	1.000	1.333	.667	.667	.667	.667	.667	.667	.667	.667	2.667	2.667	1.000	9.333	1.167
3	39766 276	1.000	1.667	2.000	1.333	2.000	1.333	2.000	1.333	2.000	1.333	2.667	2.667	2.667	2.667	2.667	14.667	1.833
4	39767 277	1.667	1.333	.667	.333	.667	.333	.333	.333	.333	.333	.667	.667	.667	.667	2.667	8.000	1.000
5	39768 278	1.667	2.333	2.333	2.000	1.667	1.667	1.667	1.667	1.667	2.333	2.000	1.000	1.000	1.000	1.000	14.667	1.833
6	39769 279	1.667	3.000	1.000	1.667	1.667	1.667	1.667	1.000	1.667	1.000	.333	.333	.333	.333	1.667	12.000	1.500
7	39770 280	2.333	1.333	1.667	2.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	1.000	1.000	1.000	1.792	14.333	1.792
8	39771 281	.000	.333	1.000	.667	4.333	4.333	2.667	4.333	2.667	3.333	2.667	3.333	3.333	2.667	17.000	2.125	2.125
9	39772 282	3.000	2.000	1.667	3.000	1.333	1.333	2.333	1.333	1.333	2.333	2.333	5.333	5.333	23.000	2.875	2.875	2.875
10	39773 283	5.000	4.667	3.333	4.000	4.667	3.333	4.000	4.667	4.000	4.333	4.000	4.333	4.333	4.333	34.333	4.292	4.292
11	39774 284	1.667	2.000	1.333	2.000	4.000	4.000	4.000	4.000	4.000	4.333	2.667	1.667	1.667	1.667	19.667	2.458	2.458
12	39775 285	4.333	4.000	3.667	3.000	.667	.667	.667	.667	.667	3.667	1.000	1.000	1.000	4.000	24.333	3.042	3.042
13	39776 286	4.000	2.333	.667	1.667	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	3.667	20.667	2.583
14	39777 287	1.000	1.667	3.000	2.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	17.000	2.125
15	39778 288	4.000	2.000	1.333	.667	1.000	1.667	1.000	1.000	1.000	1.667	1.000	1.000	1.333	1.333	13.000	1.625	1.625
16	39779 289	2.000	2.000	1.000	1.000	.333	.333	.333	.333	.333	.667	.667	.667	1.667	1.667	10.333	1.292	1.292
17	39780 290	1.000	2.333	3.000	2.000	2.667	1.667	3.000	2.667	1.667	3.000	2.667	3.000	2.333	2.333	18.000	2.250	2.250
18	39781 291	1.667	2.000	2.333	2.333	1.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	13.667	1.708	1.708
19	39782 292	1.333	2.333	.333	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.667	9.000	1.125	1.125
20	39783 293	1.333	.333	.667	.667	1.000	.333	.667	.667	.667	.667	.667	.667	.667	.667	5.667	.708	.708
21	39784 294	.000	.000	.000	.333	.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	1.000	.125
22	39785 295	.000	.333	.333	1.000	2.000	1.667	3.000	1.667	3.000	1.667	3.000	3.000	2.667	1.000	1.000	1.375	1.375
23	39786 296	3.333	2.333	2.333	1.333	2.000	.667	.667	.667	.667	.667	.667	.667	.667	.667	15.333	1.917	1.917
24	39787 297	.000	1.000	1.333	1.333	2.333	2.333	1.000	1.000	1.000	1.000	1.000	1.000	1.000	.667	8.667	1.083	1.083
25	39788 298	.667	.333	.667	1.000	.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	5.333	.667
26	39789 299	.333	1.000	.333	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	.667	4.667	.583
27	39790 300	.667	1.667	2.333	2.667	3.000	3.333	2.667	3.000	3.333	2.667	2.667	2.667	2.667	1.667	18.000	2.250	2.250
28	39791 301	2.667	3.000	3.667	4.667	3.333	3.333	3.333	3.333	3.333	3.333	3.333	3.667	5.333	3.667	29.667	3.708	3.708
29	39792 302	3.000	3.000	2.667	4.000	5.333	5.000	3.333	2.333	2.333	2.333	2.333	2.333	2.333	2.333	28.667	3.583	3.583
30	39793 303	3.333	5.333	3.667	1.667	1.000	1.333	1.333	1.333	1.000	1.333	1.333	1.333	1.333	1.000	13.667	2.333	2.333
31	39794 304	1.000	.333	.333	2.000	3.667	1.333	2.333	.333	.333	.333	.333	.333	.333	.333	11.333	1.417	1.417

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

[illegible]

OCTOBER 1967

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MCD JULIAN DAY	DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1
			DAILY 27-DAY	81-DAY	DAILY 27-DAY	81-DAY
1	39764	274	139.0	141.1	146.0	176
2	39765	275	134.0	141.0	146.2	177
3	39766	276	131.0	141.0	146.4	195
4	39767	277	129.0	140.9	146.5	198
5	39768	278	129.0	140.7	146.5	1103
6	39769	279	130.0	140.7	146.5	198
7	39770	280	125.0	140.6	146.5	192
8	39771	281	121.0	140.6	146.5	176
9	39772	282	122.0	140.5	146.4	180
10	39773	283	127.0	140.1	146.3	182
11	39774	284	137.0	139.9	146.1	190
12	39775	285	136.0	139.3	145.9	165
13	39776	286	131.0	138.6	145.4	155
14	39777	287	128.0	137.7	144.7	163
15	39778	288	123.0	136.8	143.8	147
16	39779	289	118.0	135.7	142.7	141
17	39780	290	118.0	134.9	141.6	138
18	39781	291	114.0	133.9	140.5	150
19	39782	292	120.0	133.0	139.4	162
20	39783	293	132.0	132.3	138.8	183
21	39784	294	131.0	131.7	138.3	100
22	39785	295	138.0	131.1	136.0	185
23	39786	296	140.0	130.7	137.8	1101
24	39787	297	142.0	130.4	137.7	193
25	39788	298	143.0	130.1	137.6	1114
26	39789	299	150.0	130.0	137.6	1125
27	39790	300	163.0	131.4	137.8	1125
28	39791	301	179.0	132.9	138.3	1156
29	39792	302	165.0	134.0	138.7	1137
30	39793	303	161.0	135.1	139.0	1132
31	39794	304	150.0	135.9	139.2	1116
MONTHLY AVERAGE			135.5			88.2
MONTHLY SMOOTHED			147.0			94.9



## QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

MOD. DAY JULIAN OF			KP											SUM	AVG.
DAY	MONTH	YEAR	1	2	3	4	5	6	7	8	KP	KP	KP	KP	
1	39795	305	000	333	1000	333	333	333	1000	2000	1333	6333	792		
2	39796	306	2333	2000	2000	2000	1667	2000	3667	3000	18667	2335			
3	39797	307	2667	1667	2000	2667	4333	4333	5333	4667	3667	27000	3375		
4	39798	308	3667	3000	1667	2000	2667	2667	1000	333	2000	16333	2042		
5	39799	309	2667	2333	3000	2000	2000	2000	2667	3667	1000	19333	2417		
6	39800	310	1333	1333	1667	1333	333	333	667	1000	1333	9000	1125		
7	39801	311	000	1000	1000	1000	1000	667	333	333	5333	667			
8	39802	312	3667	3333	1667	3000	3000	2000	4333	4333	25333	3167			
9	39803	313	2667	2000	2000	2000	3000	3000	3000	667	18333	2292			
10	39804	314	1000	1000	667	333	2000	1000	1333	667	8000	1000			
11	39805	315	1333	1667	1000	1000	1000	1000	4667	5667	17333	2167			
12	39806	316	3000	4000	4333	3333	2000	3667	3667	3333	28333	3542			
13	39807	317	3000	4000	2667	3000	2333	3000	3667	3667	25333	3167			
14	39808	318	3333	2667	3333	2000	1333	3000	2000	1000	18667	2333			
15	39809	319	333	1000	1667	1000	2333	3667	3333	3333	16667	2083			
16	39810	320	2333	3333	2333	1667	2333	2000	1333	1667	17000	2125			
17	39811	321	667	667	333	000	333	000	333	333	2667	333			
18	39812	322	1000	667	667	667	333	667	333	333	4667	583			
19	39813	323	667	1667	667	667	333	1333	1000	000	6333	792			
20	39814	324	1000	1000	333	333	000	333	000	000	3000	375			
21	39815	325	000	000	333	333	000	1000	667	3667	7333	917			
22	39816	326	1333	3333	4000	3000	3667	1333	2000	1333	20000	2500			
23	39817	327	1667	2333	1000	2000	3000	1333	1667	2667	15667	1958			
24	39818	328	4333	4000	4333	3000	2667	2333	2667	3333	26667	3333			
25	39819	329	3333	1333	1667	2333	3000	2667	2333	2667	19333	2417			
26	39820	330	3667	1667	1000	1333	2333	2333	1667	2333	16333	2042			
27	39821	331	1333	3000	2333	2333	1667	1667	2667	1667	16667	2083			
28	39822	332	3333	4000	4000	2000	1667	3333	2333	3667	24333	3042			
29	39823	333	3333	3333	3000	4333	3333	3333	2000	1333	667	21333			
30	39824	334	1667	2333	3333	2000	1667	2000	4333	3333	20667	2583			

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. OF JULIAN DAY	DAY YEAR	AP		AP		AP		AP		AP		MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	AP	AVG AP	
1	39795	305	0	2	4	2	2	4	7	5	3.250	.1	
2	39796	306	9	7	7	7	6	7	22	15	10.000	.6	
3	39797	307	12	6	7	12	32	56	39	22	23.250	1.1	
4	39798	308	22	15	6	7	12	4	2	7	9.375	.5	
5	39799	309	12	9	15	7	7	12	22	4	11.000	.6	
6	39800	310	5	5	6	5	2	3	4	5	4.375	.2	
7	39801	311	0	4	4	4	4	3	2	2	2.875	.1	
8	39802	312	22	18	6	15	7	15	32	32	18.375	1.0	
9	39803	313	12	7	7	7	15	15	15	3	10.125	.6	
10	39804	314	4	4	3	2	7	4	5	3	4.000	.1	
11	39805	315	5	6	4	4	4	4	39	67	16.625	.9	
12	39806	316	15	27	32	18	7	22	39	18	22.250	1.1	
13	39807	317	15	27	12	15	9	15	22	22	17.125	.9	
14	39808	318	18	12	12	7	5	15	7	4	10.750	.6	
15	39809	319	2	4	6	4	9	22	18	18	10.375	.6	
16	39810	320	9	18	9	6	9	7	5	6	8.625	.5	
17	39811	321	3	3	2	0	2	0	2	2	1.750	.0	
18	39812	322	4	3	3	3	2	3	2	2	2.750	.0	
19	39813	323	3	6	3	3	2	5	4	0	3.250	.1	
20	39814	324	4	4	2	2	0	2	0	0	1.750	.0	
21	39815	325	0	0	2	0	4	3	6	22	4.625	.2	
22	39816	326	5	18	27	15	22	5	7	5	13.000	.7	
23	39817	327	6	9	4	7	15	5	6	12	8.000	.4	
24	39818	328	32	27	32	15	12	9	12	18	19.625	1.0	
25	39819	329	14	5	6	9	15	12	9	12	10.750	.6	
26	39820	330	22	6	4	5	9	9	6	9	8.750	.5	
27	39821	331	5	15	9	9	6	6	12	6	8.500	.5	
28	39822	332	18	27	27	7	6	18	9	22	16.750	.9	
29	39823	333	18	18	15	32	18	7	5	3	14.500	.8	
30	39824	334	6	9	16	7	6	7	32	18	12.875	.7	

NOVEMBER 1967

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF	1---SOLAR FLUX(10.7CM OTTAWA)---	1---RELATIVE ZURICH SUNSPOT NUMBER---	1---RUNNING MEANS---	1---YUNNING MEANS---	
DAY	YEAR	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY 54-DAY 81-DAY	
1	39795 305	142.0	136.5	132.9	139.3	115 88.9 78.1 89.0
2	39796 306	143.0	137.0	133.1	139.4	122 89.3 78.5 89.6
3	39797 307	139.0	137.5	133.3	139.6	113 90.6 78.9 90.1
4	39798 308	132.0	137.9	133.3	139.7	110 91.9 79.5 90.7
5	39799 309	123.0	138.0	133.2	139.6	91 92.3 79.7 90.9
6	39800 310	121.0	137.7	133.1	139.3	51 91.1 79.4 90.4
7	39801 311	115.0	136.9	132.9	138.9	48 89.6 79.4 89.6
8	39802 312	115.0	136.1	132.6	138.2	27 88.1 79.2 85.5
9	39803 313	113.0	135.5	132.4	137.5	34 87.4 79.1 87.6
10	39804 314	119.0	135.1	132.3	136.9	41 86.6 79.1 86.6
11	39805 315	126.0	135.3	132.3	136.3	38 86.2 78.8 85.5
12	39806 316	135.0	135.9	132.5	135.8	56 86.8 78.8 84.7
13	39807 317	137.0	136.6	132.6	135.4	77 88.2 79.0 84.2
14	39808 318	139.0	137.5	132.9	135.1	95 89.9 79.6 83.7
15	39809 319	146.0	138.5	133.3	134.8	98 91.2 80.2 83.4
16	39810 320	155.0	139.3	133.9	134.7	119 92.6 81.4 83.4
17	39811 321	158.0	140.3	134.4	134.6	121 94.1 82.7 83.4
18	39812 322	160.0	141.1	134.9	134.5	134 95.9 84.1 83.7
19	39813 323	170.0	142.3	135.6	134.6	131 97.0 85.5 83.8
20	39814 324	170.0	143.3	136.2	134.7	116 97.9 86.7 83.6
21	39815 325	165.0	144.1	136.8	134.8	95 97.1 87.2 83.3
22	39816 326	163.0	144.6	137.4	134.9	92 95.9 87.6 83.0
23	39817 327	160.0	144.5	137.9	135.1	103 95.1 88.2 82.8
24	39818 328	156.0	143.6	138.2	135.3	108 93.3 88.8 82.7
25	39819 329	158.0	143.4	138.7	135.6	128 93.0 89.7 82.7
26	39820 330	162.0	143.4	139.3	136.0	109 92.1 90.0 82.6
27	39821 331	159.0	143.7	139.8	136.4	105 91.7 90.1 82.5
28	39822 332	161.0	144.4	140.5	136.7	112 91.6 90.3 82.6
29	39823 333	154.0	144.9	140.9	137.0	117 91.4 90.6 82.8
30	39824 334	148.0	145.2	141.4	137.3	123 91.8 91.2 83.2

MONTHLY AVERAGE 144.3  
MONTHLY SMOOTHED 147.6

94.3  
97.1

DECEMBER 1967

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	39825 335	3.333	3.667	4.000	5.333	3.333	3.667	5.000	5.333	33.667	4.208
2	39826 336	5.667	4.333	2.667	2.000	2.333	1.000	1.000	2.333	21.333	2.667
3	39827 337	.667	.667	1.667	2.000	3.000	2.333	2.000	3.000	15.333	1.917
4	39828 338	2.667	2.333	1.667	1.667	1.000	1.333	1.000	2.333	14.000	1.750
5	39829 339	1.000	2.000	.667	1.000	1.667	2.667	3.333	5.000	17.333	2.167
6	39830 340	2.333	3.667	2.333	3.667	4.000	4.000	3.333	4.333	27.667	3.458
7	39831 341	4.333	3.000	3.667	3.333	3.667	4.000	3.333	2.000	27.333	3.417
8	39832 342	3.667	3.667	4.333	3.000	3.000	4.000	5.333	3.667	30.667	3.833
9	39833 343	3.000	1.667	1.667	.667	3.000	3.000	3.000	2.000	18.000	2.250
10	39834 344	3.000	2.000	2.000	2.333	1.000	.667	.667	.667	12.333	1.542
11	39835 345	2.667	.667	.333	.333	.333	.333	.000	.333	5.000	.625
12	39836 346	1.667	2.333	.667	1.333	.667	1.667	1.667	2.000	12.000	1.500
13	39837 347	1.667	1.333	1.333	1.000	.333	1.000	1.667	1.333	9.667	1.208
14	39838 348	1.000	1.000	1.000	1.000	1.000	2.000	.333	.667	8.000	1.000
15	39839 349	3.667	2.667	2.000	1.333	1.333	2.000	2.333	3.000	18.333	2.292
16	39840 350	2.333	3.000	1.000	2.333	2.000	2.000	1.667	2.000	16.333	2.042
17	39841 351	2.333	2.667	3.667	3.000	3.000	2.000	1.333	1.333	19.333	2.417
18	39842 352	2.667	3.667	4.000	2.667	4.000	4.000	3.333	2.000	26.333	3.292
19	39843 353	2.333	4.333	2.333	3.333	4.000	3.667	5.333	5.667	31.000	3.875
20	39844 354	4.000	5.000	3.667	4.667	4.667	4.333	4.667	1.667	32.667	4.083
21	39845 355	3.000	2.667	2.333	3.667	3.000	4.000	2.667	2.667	24.000	3.000
22	39846 356	2.000	2.000	2.667	2.667	2.667	2.000	3.000	4.000	21.000	2.625
23	39847 357	4.667	3.333	2.667	2.333	3.000	2.667	3.333	2.333	24.333	3.042
24	39848 358	1.667	.333	1.000	1.333	1.667	1.333	2.333	1.000	10.667	1.333
25	39849 359	1.333	.333	1.333	.333	1.000	.333	.333	1.000	6.000	.750
26	39850 360	1.667	1.333	1.000	1.000	2.333	3.000	2.000	.667	13.000	1.625
27	39851 361	2.667	1.000	2.333	1.667	3.333	3.000	.667	1.000	15.667	1.958
28	39852 362	1.000	1.000	.667	.333	.667	.667	2.667	2.333	9.333	1.167
29	39853 363	3.333	1.667	1.000	.667	1.000	.667	.333	1.333	10.000	1.250
30	39854 364	1.333	2.333	2.000	2.000	2.667	2.667	2.333	2.333	17.667	2.208
31	39855 365	3.667	5.333	5.333	5.333	5.667	6.000	6.000	5.333	42.667	5.333

DECEMBER 1967

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	39825	335	18	22	27	56	18	22	48	56	33.375				1.3
2	39826	336	67	32	12	7	9	4	4	9	18.000				1.0
3	39827	337	3	3	6	7	15	9	7	15	8.125				.4
4	39828	338	12	9	6	6	4	5	4	9	6.875				.3
5	39829	339	4	7	3	4	6	12	18	48	12.750				.7
6	39830	340	7	22	9	22	27	27	18	32	20.750				1.1
7	39831	341	32	15	22	18	22	27	18	7	20.125				1.0
8	39832	342	22	22	32	15	15	27	56	22	26.375				1.2
9	39833	343	15	6	6	3	15	15	15	7	10.250				.6
10	39834	344	15	7	7	9	4	3	3	3	6.375				.3
11	39835	345	12	3	2	2	2	2	0	2	3.125				.1
12	39836	346	6	9	3	5	3	6	6	7	5.625				.3
13	39837	347	6	5	5	4	2	4	6	5	4.625				.2
14	39838	348	4	4	4	4	4	7	2	3	4.000				.1
15	39839	349	22	12	7	5	5	7	9	15	10.250				.6
16	39840	350	9	15	4	9	7	7	6	7	8.000				.4
17	39841	351	9	12	22	15	15	7	5	5	11.250				.6
18	39842	352	12	22	27	12	27	27	18	7	19.000				1.0
19	39843	353	9	32	9	18	27	22	56	67	30.000				1.3
20	39844	354	27	48	22	39	39	32	39	6	31.500				1.3
21	39845	355	15	12	9	22	15	27	12	12	15.500				.9
22	39846	356	7	7	12	12	12	7	15	27	12.375				.7
23	39847	357	39	18	12	9	15	12	18	9	16.500				.9
24	39848	358	6	2	4	5	6	5	9	4	5.125				.2
25	39849	359	5	2	5	2	4	2	2	4	3.250				.1
26	39850	360	6	5	4	4	9	15	7	3	6.625				.3
27	39851	361	12	4	9	6	18	15	3	4	8.875				.5
28	39852	362	4	4	3	2	3	3	12	9	5.000				.2
29	39853	363	18	6	4	3	4	3	2	5	5.625				.3
30	39854	364	5	9	7	7	12	12	9	9	8.750				.5
31	39855	365	22	56	56	56	67	90	80	56	59.125				1.7

DECEMBER 1967

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	137.4	1	131	92.6	92.2	83.8
1	39825 335	1 144.0	145.6	141.8	137.4	1	131	92.6
2	39826 336	1 135.0	146.1	142.0	137.5	1	126	93.1
3	39827 337	1 124.0	146.2	142.0	137.5	1	89	93.2
4	39828 338	1 130.0	146.7	141.8	137.5	1	79	96.4
5	39829 339	1 125.0	147.1	141.6	137.5	1	79	98.4
6	39830 340	1 134.0	147.9	141.7	137.6	1	89	100.4
7	39831 341	1 131.0	148.3	141.7	137.7	1	126	103.6
8	39832 342	1 133.0	148.6	141.9	137.7	1	131	107.0
9	39833 343	1 134.0	148.6	142.2	137.8	1	117	109.3
10	39834 344	1 131.0	148.3	142.5	137.9	1	114	110.6
11	39835 345	1 141.0	148.4	143.0	138.0	1	132	112.0
12	39836 346	1 143.0	148.3	143.4	138.3	1	135	113.4
13	39837 347	1 147.0	148.0	143.7	138.6	1	137	114.0
14	39838 348	1 150.0	148.0	144.2	138.9	1	140	114.7
15	39839 349	1 169.0	148.3	144.7	139.4	1	151	115.4
16	39840 350	1 187.0	149.0	145.6	140.0	1	160	116.4
17	39841 351	1 204.0	150.4	146.8	140.9	1	172	118.5
18	39842 352	1 219.0	152.4	148.2	142.0	1	170	121.3
19	39843 353	1 212.0	154.2	149.4	143.0	1	129	122.7
20	39844 354	1 208.0	156.0	150.2	143.9	1	141	124.1
21	39845 355	1 204.0	157.7	150.7	144.7	1	130	124.9
22	39846 356	1 188.0	158.9	151.1	145.4	1	105	124.0
23	39847 357	1 169.0	159.1	151.3	145.9	1	101	123.7
24	39848 358	1 158.0	159.1	151.4	146.2	1	91	123.2
25	39849 359	1 164.0	159.2	151.8	146.7	1	111	123.2
26	39850 360	1 171.0	159.8	152.3	147.2	1	142	124.1
27	39851 361	1 183.0	161.1	153.1	147.9	1	140	124.7
28	39852 362	1 190.0	162.6	154.2	148.3	1	165	126.0
29	39853 363	1 182.0	164.6	155.3	149.5	1	141	126.6
30	39854 364	1 164.0	166.0	156.1	150.0	1	124	127.9
31	39855 365	1 157.0	167.0	156.9	150.2	1	119	129.3

MONTHLY AVERAGE 162.7  
MONTHLY SMOOTHED 149.0

126.4  
100.6

1247

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP
1	39856	1	4.667	4.667	4.667	3.667	3.667	2.667	2.667	2.333	30.002	3.750
2	39857	2	2.000	3.667	5.667	6.000	4.667	4.333	3.333	3.000	32.666	4.083
3	39858	3	3.333	2.667	2.667	1.333	1.000	.667	1.000	2.667	15.333	1.916
4	39859	4	1.667	1.000	1.000	1.667	.667	1.000	2.000	3.667	12.667	1.583
5	39860	5	2.333	2.333	1.667	2.000	2.667	2.667	2.000	3.000	18.667	2.333
6	39861	6	3.667	3.333	2.000	2.333	3.667	3.667	3.000	2.333	24.000	3.000
7	39862	7	2.667	3.000	2.333	2.000	1.333	1.667	1.000	2.000	16.000	1.375
8	39863	8	1.667	1.000	1.000	1.667	1.667	1.333	.333	.333	11.000	1.375
9	39864	9	.000	.333	.333	.333	.333	1.667	.667	1.000	4.666	.583
10	39865	10	1.333	2.000	2.000	.667	1.667	1.000	1.000	1.000	10.666	1.333
11	39866	11	1.000	1.000	.667	.667	3.333	3.333	3.333	3.000	16.332	2.041
12	39867	12	2.667	2.667	2.667	2.333	2.333	3.333	3.333	3.000	22.332	2.791
13	39868	13	2.333	3.000	2.333	2.667	1.667	1.667	1.667	2.333	17.667	2.208
14	39869	14	3.000	3.333	2.333	1.667	1.333	1.667	3.000	3.333	19.665	2.458
15	39870	15	2.333	2.333	1.333	1.667	2.000	2.000	2.667	3.667	18.000	2.250
16	39871	16	3.000	2.000	1.333	1.667	3.667	3.667	4.000	3.000	20.000	2.500
17	39872	17	1.667	3.333	4.000	2.333	2.333	3.333	3.000	2.667	21.665	2.708
18	39873	18	4.000	2.333	3.000	2.000	2.333	2.000	1.000	.667	17.332	2.166
19	39874	19	.333	2.333	3.000	2.667	1.667	3.667	2.667	4.000	20.333	2.541
20	39875	20	4.000	3.000	3.000	3.333	3.333	2.333	2.667	.667	22.332	2.791
21	39876	21	1.000	2.333	2.667	2.667	2.000	2.667	1.667	1.667	16.667	2.083
22	39877	22	1.333	2.667	2.000	1.667	2.333	3.000	2.333	2.000	17.332	2.166
23	39878	23	2.000	2.333	2.667	1.000	1.333	2.000	3.333	3.333	17.998	2.249
24	39879	24	2.000	1.333	2.000	2.667	3.000	2.000	3.000	2.333	18.332	2.291
25	39880	25	2.000	.667	1.000	.667	1.333	1.333	1.000	1.333	9.332	1.166
26	39881	26	1.667	2.000	2.000	1.667	3.667	4.333	2.667	2.333	20.333	2.541
27	39882	27	1.667	2.333	2.333	1.000	2.000	2.000	2.000	3.667	17.000	2.125
28	39883	28	4.333	2.667	.333	.667	2.000	2.333	3.667	3.667	19.667	2.458
29	39884	29	4.000	4.667	1.667	1.667	1.333	1.667	2.667	4.000	21.667	2.708
30	39885	30	3.667	3.667	2.333	2.333	1.333	2.000	1.667	1.667	18.667	2.333
31	39886	31	2.667	3.667	2.333	2.000	1.000	2.000	.333	1.000	15.000	1.875

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPITUDE THREE HOURLY (AP) INDICES

[illegible]



JANUARY 1968

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1- SOLAR FLUX(10.7CM OTTAWA)	2- RELATIVE ZURICH SUNSPOT NUMBER	3- RELATIVE ZURICH SUNSPOT NUMBER	4- RELATIVE ZURICH SUNSPOT NUMBER	5- RELATIVE ZURICH SUNSPOT NUMBER	6- RELATIVE ZURICH SUNSPOT NUMBER	7- RELATIVE ZURICH SUNSPOT NUMBER	8- RELATIVE ZURICH SUNSPOT NUMBER	9- RELATIVE ZURICH SUNSPOT NUMBER	10- RELATIVE ZURICH SUNSPOT NUMBER	11- RELATIVE ZURICH SUNSPOT NUMBER	12- RELATIVE ZURICH SUNSPOT NUMBER	13- RELATIVE ZURICH SUNSPOT NUMBER	14- RELATIVE ZURICH SUNSPOT NUMBER	15- RELATIVE ZURICH SUNSPOT NUMBER	16- RELATIVE ZURICH SUNSPOT NUMBER	17- RELATIVE ZURICH SUNSPOT NUMBER	18- RELATIVE ZURICH SUNSPOT NUMBER	19- RELATIVE ZURICH SUNSPOT NUMBER	20- RELATIVE ZURICH SUNSPOT NUMBER	21- RELATIVE ZURICH SUNSPOT NUMBER	22- RELATIVE ZURICH SUNSPOT NUMBER	23- RELATIVE ZURICH SUNSPOT NUMBER	24- RELATIVE ZURICH SUNSPOT NUMBER	25- RELATIVE ZURICH SUNSPOT NUMBER	26- RELATIVE ZURICH SUNSPOT NUMBER	27- RELATIVE ZURICH SUNSPOT NUMBER	28- RELATIVE ZURICH SUNSPOT NUMBER	29- RELATIVE ZURICH SUNSPOT NUMBER	30- RELATIVE ZURICH SUNSPOT NUMBER	31- RELATIVE ZURICH SUNSPOT NUMBER
1	39856	1	177.3	169.0	158.0	150.7	1	119	130.3	114.6	105.8																					
2	39857	2	177.7	170.6	159.2	151.3	1	123	132.1	116.2	106.6																					
3	39858	3	185.4	172.6	160.5	152.0	1	128	132.1	117.9	107.4																					
4	39859	4	190.1	174.7	161.7	152.9	1	137	132.4	119.7	108.5																					
5	39860	5	197.7	177.1	162.8	153.8	1	152	133.7	121.5	109.9																					
6	39861	6	216.9	180.3	164.3	155.1	1	150	135.0	122.8	111.3																					
7	39862	7	231.5	183.6	166.0	156.5	1	164	136.2	124.1	112.7																					
8	39863	8	238.1	187.1	167.7	158.0	1	182	137.9	125.6	114.2																					
9	39864	9	229.6	190.2	169.1	159.2	1	200	140.3	127.1	115.6																					
10	39865	10	215.4	192.3	170.2	160.2	1	198	142.4	128.6	117.1																					
11	39866	11	209.4	193.8	171.1	161.1	1	154	142.5	128.9	117.9																					
12	39867	12	205.7	194.5	171.7	161.9	1	144	141.9	129.2	118.5																					
13	39868	13	203.9	194.4	172.4	162.7	1	139	140.7	129.6	119.0																					
14	39869	14	193.4	193.4	172.9	163.3	1	107	138.4	129.8	118.9																					
15	39870	15	182.6	192.3	173.3	163.7	1	94	137.1	129.9	118.6																					
16	39871	16	160.1	190.8	173.4	163.7	1	78	134.7	129.4	113.0																					
17	39872	17	162.6	189.2	173.5	163.5	1	68	132.4	128.7	116.9																					
18	39873	18	153.4	188.0	173.4	163.4	1	60	130.8	127.4	115.9																					
19	39874	19	146.3	187.1	173.1	163.2	1	58	129.2	126.5	115.0																					
20	39875	20	141.8	186.5	172.8	163.1	1	55	127.9	125.5	114.3																					
21	39876	21	136.9	185.5	172.3	163.0	1	55	125.8	124.5	113.5																					
22	39877	22	140.1	184.4	172.1	163.0	1	69	123.1	123.6	112.9																					
23	39878	23	142.3	182.9	172.0	163.1	1	75	120.7	122.7	112.4																					
24	39879	24	153.4	181.5	172.2	163.3	1	93	118.0	122.0	112.2																					
25	39880	25	145.2	180.9	172.7	163.8	1	90	116.1	121.3	112.2																					
26	39881	26	179.5	181.5	173.7	164.6	1	87	114.7	121.3	112.6																					
27	39882	27	190.7	182.7	174.9	165.5	1	88	113.6	121.5	113.1																					
28	39883	28	219.6	184.3	176.6	166.8	1	140	114.4	122.6	114.5																					
29	39884	29	227.5	186.1	178.4	168.2	1	175	116.3	124.2	116.3																					
30	39885	30	236.2	188.0	180.3	167.6	1	185	118.4	125.3	118.0																					
31	39886	31	246.2	190.1	182.4	171.1	1	209	121.1	126.7	120.1																					

MONTHLY AVERAGE 189.1  
MONTHLY SMOOTHED 147.8

121.8  
102.6

FEBRUARY 1963

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	39887 32	.667	2.000	2.667	2.333	2.667	2.000	2.000	2.667	3.000	18.000	2.250
2	39888 33	3.667	2.667	2.333	3.333	3.000	4.000	4.000	3.333	4.333	26.665	3.333
3	39889 34	4.667	2.000	2.667	2.667	3.333	3.667	3.667	2.333	2.667	24.000	3.000
4	39890 35	4.333	4.000	4.000	4.333	2.667	2.333	1.333	1.333	1.333	24.332	3.041
5	39891 36	.000	.333	1.000	2.333	1.667	2.000	3.000	3.333	3.000	13.666	1.708
6	39892 37	1.333	.667	.333	.667	.000	.333	.333	.333	.333	3.999	.499
7	39893 38	.000	.000	.333	.333	.000	.000	2.000	2.000	3.000	7.666	.958
8	39894 39	3.333	3.333	2.667	2.333	2.333	2.333	3.000	3.000	3.333	23.332	2.916
9	39895 40	4.333	4.000	4.000	2.667	3.333	3.000	5.000	2.333	3.667	25.332	3.166
10	39896 41	3.333	3.000	3.000	3.333	3.000	3.000	5.000	5.667	6.333	32.665	4.083
11	39897 42	5.333	6.000	6.000	6.000	6.000	5.000	3.333	3.667	4.000	39.332	4.916
12	39898 43	4.333	4.000	3.000	2.333	2.333	2.333	2.333	2.333	.333	20.997	2.624
13	39899 44	.333	2.333	4.333	3.667	3.667	4.667	4.333	1.333	1.333	22.332	2.791
14	39900 45	2.000	1.000	1.000	1.333	1.667	1.667	.333	.667	2.333	10.332	1.291
15	39901 46	1.000	2.333	3.333	4.667	4.333	4.333	5.333	4.000	3.000	27.999	3.499
16	39902 47	2.000	2.333	2.667	3.333	3.333	3.333	3.333	3.000	3.333	23.332	2.916
17	39903 48	3.333	1.667	3.000	3.667	3.667	4.333	2.333	2.667	4.333	25.332	3.166
18	39904 49	3.000	2.000	4.333	4.000	4.000	4.000	4.333	4.667	3.000	29.332	3.666
19	39905 50	4.000	4.000	3.333	2.000	1.667	1.667	.667	.333	.667	16.667	2.083
20	39906 51	2.000	1.333	5.333	6.000	5.333	5.333	3.667	3.667	4.333	31.665	3.958
21	39907 52	5.000	4.000	3.333	3.667	2.667	2.667	3.000	3.667	4.000	29.334	3.666
22	39908 53	2.667	3.333	3.000	3.000	1.667	1.667	2.667	1.000	.333	17.667	2.208
23	39909 54	.000	1.667	2.000	.667	.667	1.000	2.000	2.333	2.000	11.666	1.458
24	39910 55	1.000	2.667	3.000	1.667	1.667	1.667	1.333	.667	.333	12.333	1.541
25	39911 56	.667	.333	2.000	.333	.333	1.000	1.333	2.000	.667	8.332	1.041
26	39912 57	1.000	1.333	.333	.333	.333	.333	1.000	2.000	2.333	8.664	1.083
27	39913 58	2.333	.667	1.000	.667	.667	1.000	1.667	3.667	3.000	14.001	1.750
28	39914 59	4.333	3.333	1.333	3.000	3.000	4.000	4.667	5.000	5.333	30.999	3.874
29	39915 60	4.667	4.000	3.667	2.667	2.667	2.667	2.667	2.667	2.000	25.002	3.125

FEBRUARY 1968

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	AP												MAGNETIC CHARACTER
			1	2	3	4	5	6	7	8	9	10	11	12	
1	39487	32	3	7	12	9	12	7	12	15	9.625				.5
2	39488	33	22	12	9	18	15	27	13	32	19.125				1.0
3	39489	34	39	7	12	12	18	22	9	12	16.375				.9
4	39490	35	32	27	27	32	12	9	5	5	16.625				.9
5	39491	36	0	2	4	9	6	7	18	15	7.625				.4
6	39492	37	5	3	2	3	0	2	2	2	2.375				.0
7	39493	38	0	0	2	2	0	7	7	15	4.125				.1
8	39494	39	18	18	12	9	9	15	15	18	14.250				.8
9	39495	40	32	27	27	12	18	4	9	22	18.875				1.0
10	39496	41	18	15	15	18	15	18	67	94	36.250				1.4
11	39497	42	56	80	80	80	43	19	22	27	51.375				1.6
12	39498	43	32	27	15	9	7	9	9	2	14.000				.8
13	39499	44	2	9	32	22	39	32	5	5	18.250				1.0
14	39500	45	7	4	4	5	6	2	3	9	5.000				.2
15	39501	46	4	9	18	39	32	56	27	15	25.000				1.2
16	39502	47	7	9	12	18	18	18	15	18	14.375				.8
17	39503	48	10	6	15	22	32	9	12	32	18.250				1.0
18	39504	49	15	7	32	27	27	32	39	15	24.250				1.2
19	39505	50	27	27	14	7	6	3	2	3	11.625				.7
20	39506	51	7	5	56	80	56	22	22	32	35.000				1.4
21	39507	52	48	27	14	22	12	15	22	27	23.875				1.2
22	39508	53	12	18	15	15	6	12	4	2	10.500				.6
23	39509	54	0	6	7	3	4	7	9	7	5.375				.2
24	39510	55	4	12	15	6	6	5	3	2	6.625				.3
25	39511	56	3	2	7	2	4	5	7	3	4.125				.1
26	39512	57	4	5	2	2	2	4	7	9	4.375				.2
27	39513	58	9	3	4	3	4	6	22	15	4.250				.4
28	39514	59	32	18	5	15	27	39	48	56	30.000				1.3
29	39515	60	39	27	22	12	12	12	12	7	17.875				1.0

FEBRUARY 1968

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MUD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
			39847	32	1	251.7	192.4	184.8	172.7	1	208	123.1	128.4	122.0																	
			39848	33	1	250.6	194.1	187.2	174.2	1	211	125.4	130.2	123.7																	
			39849	34	1	251.6	194.8	189.2	175.6	1	199	126.7	131.4	125.0																	
			39890	35	1	226.7	194.4	190.8	176.6	1	170	126.3	132.1	125.9																	
			39891	36	1	196.9	193.2	191.7	177.1	1	137	123.9	132.1	126.1																	
			39892	37	1	177.2	191.8	192.0	177.4	1	114	120.8	131.6	126.0																	
			39893	38	1	168.8	190.3	192.0	177.5	1	86	118.3	130.4	125.4																	
			39894	39	1	155.7	188.4	191.5	177.3	1	97	116.6	129.2	125.0																	
			39895	40	1	155.9	186.6	190.5	177.1	1	95	114.9	127.8	124.7																	
			39896	41	1	159.9	185.4	189.4	177.1	1	92	114.4	126.4	124.7																	
			39897	42	1	159.9	184.5	183.4	177.0	1	89	114.2	125.6	124.6																	
			39898	43	1	163.4	184.4	187.6	177.1	1	76	114.1	124.4	124.3																	
			39899	44	1	152.9	184.1	186.7	177.0	1	67	114.1	123.3	123.8																	
			39900	45	1	149.4	183.9	185.9	176.9	1	69	114.4	122.6	123.1																	
			39901	46	1	145.4	183.9	185.5	176.7	1	87	115.5	122.3	122.8																	
			39902	47	1	146.0	184.1	185.3	176.5	1	85	116.6	122.2	122.6																	
			39903	48	1	142.0	184.3	184.9	176.3	1	94	118.0	121.9	122.3																	
			39904	49	1	138.4	184.2	184.3	176.1	1	78	118.4	120.7	121.9																	
			39905	50	1	140.7	184.1	183.5	176.0	1	65	118.0	119.3	121.1																	
			39906	51	1	141.7	183.7	182.6	176.0	1	72	117.2	117.6	120.4																	
			39907	52	1	151.8	193.2	182.0	176.2	1	79	116.8	116.5	119.8																	
			39908	53	1	155.2	182.3	181.9	176.6	1	82	116.6	115.7	119.7																	
			39909	54	1	159.9	181.2	181.9	177.0	1	93	116.8	115.2	119.9																	
			39910	55	1	168.1	179.2	181.8	177.5	1	119	116.0	115.2	120.4																	
			39911	56	1	181.0	177.5	181.8	178.1	1	161	115.5	115.9	121.3																	
			39912	57	1	187.7	175.7	181.9	178.8	1	150	114.2	116.3	121.6																	
			39913	58	1	179.1	173.2	181.7	179.3	1	126	111.1	116.1	121.5																	
			39914	59	1	174.0	170.0	181.2	179.8	1	124	108.0	115.6	121.6																	
			39915	60	1	170.5	166.7	180.4	180.3	1	120	104.7	115.0	121.7																	
MONTHLY AVERAGE			173.2								111.9																				
MONTHLY SMOOTHED			149.3								102.9																				

MARCH 1968

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	39916 61	3.000	2.333	2.333	2.333	2.667	3.333	1.333	.000	17.332	2.166
2	39917 62	1.333	3.333	2.333	2.667	1.667	2.000	2.333	2.333	17.998	2.249
3	39918 63	2.333	1.333	2.667	2.667	2.333	3.333	4.000	3.667	22.332	2.791
4	39919 64	2.667	2.667	3.000	3.000	2.333	2.667	3.333	4.333	24.000	3.000
5	39920 65	3.000	3.333	3.000	3.333	4.333	2.667	3.000	2.667	25.332	3.166
6	39921 66	2.333	1.000	1.333	1.667	1.000	1.333	2.333	2.667	13.666	1.708
7	39922 67	1.333	2.000	1.667	1.000	1.000	1.000	1.000	1.333	10.332	1.291
8	39923 68	2.000	1.000	.667	.667	.333	.667	.667	2.000	8.000	1.000
9	39924 69	1.000	1.333	.667	.667	.333	.333	1.000	2.333	7.666	.958
10	39925 70	3.333	3.667	3.333	.667	3.333	3.667	2.333	2.000	22.332	2.791
11	39926 71	2.000	2.667	3.000	2.667	.667	.333	1.333	2.333	15.000	1.875
12	39927 72	1.000	.667	.667	2.667	2.333	2.667	2.333	2.333	14.667	1.833
13	39928 73	2.000	2.000	1.667	1.333	.667	.333	.667	1.667	10.333	1.291
14	39929 74	3.000	3.000	3.333	3.000	4.000	3.667	4.000	5.000	29.000	3.625
15	39930 75	3.667	3.667	5.000	3.667	4.333	3.333	4.333	4.333	32.332	4.041
16	39931 76	3.333	4.333	3.667	3.333	5.667	2.000	3.000	4.000	29.332	3.666
17	39932 77	3.667	3.667	2.667	2.000	2.000	1.000	1.333	3.000	19.333	2.416
18	39933 78	3.667	3.000	2.667	2.667	1.667	3.000	1.667	1.667	20.001	2.500
19	39934 79	1.667	2.333	3.333	3.333	2.333	3.000	2.667	.667	19.332	2.416
20	39935 80	4.000	4.667	1.333	4.000	4.000	1.333	2.000	4.000	25.332	3.166
21	39936 81	2.667	2.000	1.667	1.667	1.667	1.667	2.333	.667	14.335	1.791
22	39937 82	1.667	1.000	1.667	2.000	2.000	1.333	1.000	.333	11.000	1.375
23	39938 83	.667	1.000	1.333	1.333	2.333	1.667	3.000	4.000	15.332	1.916
24	39939 84	2.333	3.667	4.000	3.667	4.000	3.667	3.667	4.000	29.000	3.625
25	39940 85	3.333	3.667	4.000	2.667	3.667	3.333	3.333	2.667	26.667	3.333
26	39941 86	1.333	1.667	2.667	4.000	2.667	3.000	3.667	2.667	21.667	2.708
27	39942 87	3.667	3.333	3.333	3.000	2.000	3.000	3.000	3.000	24.332	3.041
28	39943 88	2.333	3.667	3.000	2.000	2.667	2.000	2.667	2.667	21.000	2.525
29	39944 89	3.333	3.000	3.333	2.333	3.000	2.333	2.333	3.667	23.332	2.916
30	39945 90	4.333	4.333	4.667	2.667	2.667	4.667	4.333	3.000	30.667	3.833
31	39946 91	1.667	2.333	3.333	1.667	2.333	3.333	4.000	4.667	23.332	2.916

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

479

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

[illegible]

APRIL 1968

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MUD. DAY JULIAN OF YEAR	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP
1	39947 92	4.000	5.000	4.000	4.000	3.667	3.000	3.667	3.667	31.000	3.875
2	39948 93	4.000	2.333	2.333	2.333	2.667	2.000	2.667	3.000	21.332	2.666
3	39949 94	3.333	3.667	1.667	2.333	3.000	2.667	.333	3.333	20.332	2.541
4	39950 95	3.333	2.667	2.667	.667	1.333	2.000	1.667	2.000	16.333	2.041
5	39951 96	2.000	1.667	1.000	1.333	2.667	4.000	6.000	7.000	25.667	3.208
6	39952 97	3.333	4.667	6.000	5.000	4.333	4.333	4.000	3.000	34.665	4.333
7	39953 98	2.333	2.667	3.667	3.333	2.667	1.667	.667	1.333	18.333	2.291
8	39954 99	1.333	2.000	1.000	.667	1.000	.333	.000	.000	6.333	.791
9	39955 100	.000	.000	.000	.333	.333	.333	1.000	2.000	3.999	.499
10	39956 101	2.000	2.333	1.333	1.000	.667	1.667	2.333	2.000	13.332	1.666
11	39957 102	1.667	3.000	2.000	2.667	2.000	2.667	2.667	1.667	18.335	2.291
12	39958 103	1.667	1.667	1.667	1.667	1.333	2.667	3.333	4.333	18.333	2.291
13	39959 104	3.000	4.667	1.667	3.667	3.333	3.667	3.667	4.667	28.335	3.541
14	39960 105	3.667	3.667	2.000	5.000	5.000	4.000	3.667	2.667	29.667	3.708
15	39961 106	2.667	2.000	2.667	3.333	3.000	3.333	3.000	3.333	23.332	2.916
16	39962 107	3.000	2.667	3.000	2.667	2.333	1.333	3.333	3.667	22.000	2.750
17	39963 108	2.000	2.000	2.333	3.333	2.333	2.333	2.000	3.000	19.332	2.416
18	39964 109	3.000	2.333	2.333	2.333	1.333	2.000	1.667	2.000	16.998	2.124
19	39965 110	1.333	1.000	1.000	.333	.333	.667	.333	.333	5.332	.666
20	39966 111	.333	.667	.333	.333	.333	.333	.333	.000	2.665	.333
21	39967 112	.000	.667	1.000	1.000	1.333	.667	1.667	1.333	7.666	.958
22	39968 113	1.333	2.000	2.667	2.000	2.000	2.000	2.000	3.000	17.000	2.125
23	39969 114	3.667	3.333	2.667	2.333	1.667	2.333	3.000	2.000	21.000	2.625
24	39970 115	3.333	3.333	1.667	1.667	1.333	1.267	1.000	.667	14.667	1.833
25	39971 116	.000	.667	1.333	.667	.667	1.333	1.667	3.333	9.666	1.206
26	39972 117	3.000	3.333	3.333	3.000	3.000	3.667	4.667	5.667	29.667	3.708
27	39973 118	4.000	3.000	4.333	4.000	2.333	2.333	4.333	2.000	26.332	3.291
28	39974 119	3.667	4.000	3.333	2.667	2.333	2.333	2.333	3.333	23.999	2.999
29	39975 120	2.667	3.000	3.333	2.333	2.667	2.667	3.000	3.000	22.667	2.833
30	39976 121	3.600	1.333	2.000	1.667	1.333	2.000	1.333	2.333	14.998	1.874



APRIL 1968

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES												MAGNETIC CHARACTER
		1	2	3	4	5	6	7	8	9	10	11	12	
1	39947 92	27	48	27	27	22	15	22	22	22	26.250			1.2
2	39948 93	27	9	9	9	12	7	12	15	15	12.500			.7
3	39949 94	18	22	6	9	15	12	2	18	18	12.750			.7
4	39950 95	19	12	12	3	5	7	6	7	7	8.750			.5
5	39951 96	7	6	4	5	12	27	80	132	132	34.125			1.3
6	39952 97	10	39	80	48	32	32	27	15	15	36.375			1.4
7	39953 98	9	12	22	18	12	6	3	5	5	10.875			.6
8	39954 99	5	7	4	3	4	2	0	0	0	3.125			.1
9	39955 100	0	0	0	2	2	2	4	7	7	2.125			.0
10	39956 101	7	9	5	4	3	6	9	7	7	6.250			.3
11	39957 102	6	15	7	12	7	12	12	6	6	9.625			.5
12	39958 103	6	6	6	6	5	12	18	32	32	11.375			.7
13	39959 104	15	39	6	22	18	22	22	39	22	22.875			1.1
14	39960 105	22	22	7	48	40	27	22	12	12	26.000			1.2
15	39961 106	12	7	12	18	15	18	15	18	18	14.375			.8
16	39962 107	15	12	15	12	9	5	18	22	22	13.500			.8
17	39963 108	7	7	9	18	9	9	7	15	15	10.125			.6
18	39964 109	15	9	9	9	5	7	6	7	7	8.375			.5
19	39965 110	5	4	4	2	2	3	2	2	2	3.000			.1
20	39966 111	2	3	2	2	2	2	2	0	0	1.875			.0
21	39967 112	0	3	4	4	5	3	6	5	5	3.750			.1
22	39968 113	5	7	12	7	7	7	7	15	15	8.375			.5
23	39969 114	22	18	12	9	6	9	15	7	7	12.250			.7
24	39970 115	18	18	6	6	5	6	4	3	3	8.250			.4
25	39971 116	0	3	5	3	3	5	6	18	18	5.375			.2
26	39972 117	15	18	18	15	15	22	39	67	67	26.125			1.2
27	39973 118	27	15	32	27	9	9	32	7	7	19.750			1.0
28	39974 119	22	27	18	12	9	9	9	18	18	15.500			.9
29	39975 120	12	15	18	9	12	12	15	15	15	13.500			.8
30	39976 121	15	5	7	6	5	7	5	9	9	7.375			.4

APRIL 1968

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO. DAY JULIAN DAY YEAR	1-----SOLAR FLUX(10.7CM OTTAWA)-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1	1-----RELATIVE ZURICH SUNSPOT NUMBER-----1	1-----RUNNING MEANS-----1
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY
1	39947 92	144.0	140.4	149.0	162.7	1	122	92.8	94.4
2	39948 93	147.2	140.7	148.8	162.0	1	108	94.3	94.6
3	39949 94	137.1	140.8	148.4	161.1	1	98	95.8	94.7
4	39950 95	131.6	141.0	147.9	160.4	1	98	96.9	94.8
5	39951 96	129.0	141.2	147.3	159.7	1	89	97.3	94.8
6	39952 97	124.9	141.1	146.6	159.2	1	85	98.2	94.9
7	39953 98	124.5	140.9	146.1	158.7	1	79	98.0	95.1
8	39954 99	130.3	140.9	145.7	158.5	1	82	97.8	95.4
9	39955 100	140.7	141.3	145.6	158.4	1	94	98.0	95.5
10	39956 101	142.2	141.8	145.6	158.4	1	104	99.3	95.9
11	39957 102	137.7	142.2	145.5	158.4	1	95	100.7	95.9
12	39958 103	142.0	142.6	145.5	158.4	1	83	102.0	96.0
13	39959 104	141.1	142.8	145.6	158.4	1	60	102.1	95.9
14	39960 105	137.5	142.9	145.5	158.2	1	96	103.4	96.3
15	39961 106	139.0	143.2	145.2	157.9	1	110	105.6	96.9
16	39962 107	140.0	143.6	145.0	157.4	1	114	107.6	97.5
17	39963 108	131.2	143.2	144.4	156.7	1	91	108.3	97.5
18	39964 109	126.6	142.6	143.7	155.5	1	63	107.3	96.4
19	39965 110	124.2	141.8	142.6	154.2	1	53	105.1	94.4
20	39966 111	121.2	140.5	141.4	152.8	1	63	102.5	92.8
21	39967 112	122.2	139.2	140.3	151.3	1	64	99.6	91.7
22	39968 113	114.4	137.6	139.2	149.5	1	68	96.9	90.6
23	39969 114	110.5	135.8	138.1	147.6	1	50	93.3	89.3
24	39970 115	116.1	134.3	137.2	145.9	1	48	90.0	88.2
25	39971 116	118.5	132.9	136.3	144.6	1	64	87.7	87.4
26	39972 117	112.8	131.1	135.5	143.6	1	50	83.8	86.6
27	39973 118	117.5	129.7	135.0	142.8	1	57	81.0	86.1
28	39974 119	126.6	129.0	134.7	142.3	1	82	79.5	86.1
29	39975 120	126.1	128.4	134.5	142.0	1	71	78.1	86.2
30	39976 121	130.8	128.1	134.5	141.6	1	96	78.0	86.9

MONTHLY AVERAGE 129.5  
MONTHLY SMOOTHED 150.3

81.2  
107.1

434

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP										AVG. KP
		1	2	3	4	5	6	7	8	SUM KP		
1	39977 122	2.000	1.667	1.333	1.000	3.000	3.000	3.333	4.333	19.665	2.458	
2	39978 123	4.667	3.333	2.667	3.333	1.333	2.000	1.333	2.000	20.665	2.583	
3	39979 124	3.000	4.333	3.000	2.000	2.333	1.333	.333	1.333	17.664	2.208	
4	39980 125	2.667	1.667	1.333	1.000	.667	1.333	1.000	1.333	11.000	1.375	
5	39981 126	.667	1.000	1.000	1.333	.667	1.333	1.000	.667	7.666	.958	
6	39982 127	.667	1.333	.333	.333	.000	1.333	1.333	1.000	6.332	.791	
7	39983 128	3.000	6.000	6.667	4.333	6.667	5.000	3.000	3.000	37.666	4.708	
8	39984 129	3.000	2.000	1.667	1.667	1.000	1.000	1.333	1.667	13.333	1.666	
9	39985 130	4.000	3.333	3.333	4.000	3.000	3.333	4.000	3.000	27.999	3.499	
10	39986 131	2.000	3.000	.667	2.000	2.000	2.667	2.667	3.000	18.000	2.250	
11	39987 132	3.667	3.333	4.000	3.333	3.000	2.667	3.000	2.667	25.667	3.208	
12	39988 133	5.333	5.667	4.000	3.667	2.333	2.000	3.000	3.000	29.000	3.625	
13	39989 134	4.000	2.000	2.333	3.667	2.333	3.333	3.000	2.333	22.999	2.874	
14	39990 135	3.667	3.000	2.333	2.333	2.333	2.333	2.667	1.667	20.332	2.541	
15	39991 136	2.333	2.333	3.667	2.000	.667	1.667	1.667	2.667	17.000	2.125	
16	39992 137	3.000	2.667	1.667	3.000	3.000	2.667	2.000	1.333	19.333	2.416	
17	39993 138	1.000	2.667	2.000	1.667	3.333	3.667	3.667	4.000	22.000	2.750	
18	39994 139	2.333	2.000	3.000	2.000	3.667	4.667	3.333	3.333	24.332	3.041	
19	39995 140	1.333	2.000	2.333	2.000	2.333	3.333	3.333	3.333	19.997	2.499	
20	39996 141	4.333	4.000	3.333	2.667	3.000	2.667	2.333	4.000	26.332	3.291	
21	39997 142	3.667	2.667	3.667	2.333	4.000	5.000	4.000	4.000	29.334	3.666	
22	39998 143	3.667	4.667	3.667	2.000	1.667	2.667	1.667	3.333	23.335	2.916	
23	39999 144	3.000	1.333	1.000	1.333	2.667	3.000	3.000	4.333	19.665	2.458	
24	40000 145	5.000	4.000	3.333	2.667	2.667	2.000	3.000	2.333	25.000	3.125	
25	40001 146	2.000	.667	1.333	1.667	1.333	2.333	2.000	1.333	12.666	1.583	
26	40002 147	1.333	2.000	.333	1.000	1.000	.667	.667	.667	7.333	.916	
27	40003 148	.333	.667	1.333	1.000	1.000	1.000	1.667	2.000	9.000	1.125	
28	40004 149	2.000	1.667	1.000	.333	1.333	2.333	3.000	1.000	12.666	1.583	
29	40005 150	2.000	1.667	2.333	2.333	1.667	2.667	2.333	2.667	17.667	2.208	
30	40006 151	2.667	3.000	2.333	1.000	2.000	2.667	2.333	3.000	19.000	2.375	
31	40007 152	3.000	2.333	2.000	1.333	2.333	2.667	2.667	2.000	18.332	2.291	

GEOMAGNETIC PLANETARY INDICES

PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

485

MAY 1968

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY	1--SOLAR FLUX (10.7CM OTTAWA)	141.4	126	79.1	88.0	89.6
			1--SOLAR FLUX (10.7CM OTTAWA)	141.3	144	81.2	89.5	90.2
			1--SOLAR FLUX (10.7CM OTTAWA)	141.1	143	83.3	90.8	91.1
			1--SOLAR FLUX (10.7CM OTTAWA)	141.1	138	85.5	91.7	91.9
			1--SOLAR FLUX (10.7CM OTTAWA)	141.2	127	87.2	92.5	92.7
			1--SOLAR FLUX (10.7CM OTTAWA)	141.2	142	89.0	93.5	93.3
			1--SOLAR FLUX (10.7CM OTTAWA)	141.1	135	90.1	94.7	93.9
			1--SOLAR FLUX (10.7CM OTTAWA)	141.1	128	91.3	96.0	94.4
			1--SOLAR FLUX (10.7CM OTTAWA)	141.1	122	92.8	97.4	94.9
			1--SOLAR FLUX (10.7CM OTTAWA)	141.0	117	94.9	96.5	95.6
			1--SOLAR FLUX (10.7CM OTTAWA)	140.9	106	95.3	99.4	96.0
			1--SOLAR FLUX (10.7CM OTTAWA)	140.6	82	94.2	99.7	96.0
			1--SOLAR FLUX (10.7CM OTTAWA)	140.2	91	93.4	100.5	96.1
			1--SOLAR FLUX (10.7CM OTTAWA)	139.9	80	93.0	100.6	96.0
			1--SOLAR FLUX (10.7CM OTTAWA)	139.5	95	94.1	100.7	95.7
			1--SOLAR FLUX (10.7CM OTTAWA)	139.1	103	96.0	100.5	94.9
			1--SOLAR FLUX (10.7CM OTTAWA)	138.9	114	97.9	100.2	94.5
			1--SOLAR FLUX (10.7CM OTTAWA)	138.8	136	100.6	100.1	94.6
			1--SOLAR FLUX (10.7CM OTTAWA)	136.8	138	103.1	100.0	94.8
			1--SOLAR FLUX (10.7CM OTTAWA)	139.1	140	106.5	99.9	95.0
			1--SOLAR FLUX (10.7CM OTTAWA)	139.0	142	110.0	100.0	95.5
			1--SOLAR FLUX (10.7CM OTTAWA)	139.6	143	112.9	100.3	95.9
			1--SOLAR FLUX (10.7CM OTTAWA)	139.9	149	116.6	100.2	96.6
			1--SOLAR FLUX (10.7CM OTTAWA)	140.3	165	120.6	100.0	97.6
			1--SOLAR FLUX (10.7CM OTTAWA)	140.8	146	122.9	101.2	98.4
			1--SOLAR FLUX (10.7CM OTTAWA)	141.2	121	124.8	101.4	99.1
			1--SOLAR FLUX (10.7CM OTTAWA)	141.6	139	126.4	102.2	100.1
			1--SOLAR FLUX (10.7CM OTTAWA)	141.9	133	126.6	102.9	100.9
			1--SOLAR FLUX (10.7CM OTTAWA)	142.2	135	126.3	103.7	101.8
			1--SOLAR FLUX (10.7CM OTTAWA)	142.5	126	125.7	104.5	102.4
			1--SOLAR FLUX (10.7CM OTTAWA)	142.7	136	125.6	105.6	103.0

MONTHLY AVERAGE 154.9  
MONTHLY SMOOTHED 150.7

127.2  
107.6

# GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY	DAY OF YEAR	KP								SUM KP	AVG. KP
			1	2	3	4	5	6	7	8		
1	40008	153	2.333	1.333	1.667	4.000	4.000	3.000	3.333	4.000	23.665	2.958
2	40009	154	3.333	4.000	3.333	2.000	3.000	2.667	3.333	3.333	24.999	3.124
3	40010	155	4.000	1.667	2.000	3.000	2.667	3.667	2.667	3.000	22.667	2.833
4	40011	156	2.667	2.000	2.333	1.667	1.333	2.333	2.667	3.000	18.000	2.250
5	40012	157	1.333	1.667	1.333	1.333	1.333	1.333	2.000	1.000	10.998	1.374
6	40013	158	.333	1.333	.667	1.000	1.667	1.667	1.000	2.333	10.000	1.250
7	40014	159	1.333	1.667	2.667	2.667	2.667	3.667	2.667	1.000	18.335	2.291
8	40015	160	1.667	2.333	1.333	1.333	2.333	4.000	4.333	2.333	19.664	2.458
9	40016	161	1.667	3.000	1.667	1.333	1.000	2.000	2.667	3.000	16.333	2.041
10	40017	162	3.667	4.000	5.333	4.333	5.000	3.000	2.667	6.000	34.000	4.250
11	40018	163	7.000	8.000	7.000	6.333	6.667	5.000	5.667	4.333	50.000	6.250
12	40019	164	4.667	5.000	4.333	4.000	5.000	5.000	4.333	4.000	36.332	4.541
13	40020	165	4.000	5.333	6.000	5.333	5.667	4.667	4.667	3.333	39.000	4.875
14	40021	166	3.000	2.333	5.333	4.667	4.333	4.000	3.333	3.000	29.999	3.749
15	40022	167	1.667	1.667	2.667	2.000	1.333	1.667	3.000	2.333	16.333	2.041
16	40023	168	1.333	1.000	.667	2.667	3.000	1.667	3.333	4.667	18.333	2.291
17	40024	169	3.000	4.000	5.333	3.667	2.000	1.333	2.000	2.000	23.332	2.916
18	40025	170	1.667	1.333	2.667	2.333	2.667	3.000	4.333	2.333	20.332	2.541
19	40026	171	3.000	3.000	3.333	2.333	2.667	2.333	3.000	3.000	22.665	2.833
20	40027	172	2.333	2.333	1.333	1.000	.667	1.667	2.667	1.333	13.332	1.666
21	40028	173	1.000	.667	.333	.667	.667	.667	1.000	.333	5.666	.708
22	40029	174	.667	2.000	2.667	2.667	3.333	2.000	2.667	2.333	18.333	2.291
23	40030	175	1.667	2.000	2.667	1.667	1.000	1.333	1.333	2.000	13.666	1.708
24	40031	176	.333	.333	.333	.000	.333	.333	1.000	.667	3.332	.416
25	40032	177	.333	.333	1.000	.333	.333	2.333	1.000	2.333	7.998	.999
26	40033	178	4.333	2.000	1.667	2.333	3.000	3.333	2.000	3.333	21.999	2.749
27	40034	179	2.000	2.000	2.000	3.000	3.000	2.333	3.333	2.667	20.332	2.541
28	40035	180	3.000	.333	1.000	1.000	1.667	2.000	1.333	1.667	12.000	1.500
29	40036	181	1.333	1.667	1.667	.667	1.667	3.000	4.667	4.000	18.667	2.333
30	40037	182	3.667	2.667	2.333	2.000	1.667	1.667	3.000	2.666	19.667	2.458

JUNE 1968

## GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP								MAGNETIC CHARACTER	
			1	2	3	4	5	6	7	8		
1	40008	153	9	5	4	27	27	15	18	27	16.750	.9
2	40009	154	18	27	18	7	15	12	18	18	16.625	.9
3	40010	155	27	6	7	15	12	22	12	15	14.500	.8
4	40011	156	12	7	9	6	5	9	12	15	9.375	.5
5	40012	157	5	6	5	5	4	5	7	4	5.125	.2
6	40013	158	2	5	3	4	6	6	4	9	4.875	.2
7	40014	159	5	6	12	12	12	22	12	4	10.625	.6
8	40015	160	6	9	5	5	9	27	32	9	12.750	.7
9	40016	161	6	15	6	5	4	7	12	15	8.750	.5
10	40017	162	22	27	56	32	48	15	12	80	36.500	1.4
11	40018	163	132	207	132	94	111	48	67	32	102.875	1.9
12	40019	164	39	48	32	27	48	43	32	27	37.625	1.4
13	40020	165	27	56	80	56	67	39	39	18	47.750	1.6
14	40021	166	15	9	56	39	32	27	18	15	26.375	1.2
15	40022	167	6	6	12	7	5	6	15	9	8.250	.4
16	40023	168	5	4	3	12	15	6	18	39	12.750	.7
17	40024	169	15	27	56	22	7	5	7	7	18.250	1.0
18	40025	170	6	5	12	9	12	15	32	9	12.500	.7
19	40026	171	15	15	18	9	12	9	15	15	13.500	.8
20	40027	172	9	9	5	4	3	6	12	5	6.625	.3
21	40028	173	4	3	2	3	4	3	4	2	3.125	.1
22	40029	174	3	7	12	12	18	7	12	9	10.000	.6
23	40030	175	6	7	12	6	4	5	5	7	6.500	.3
24	40031	176	2	2	2	0	2	2	4	3	2.125	.0
25	40032	177	2	2	4	2	2	9	4	9	4.250	.1
26	40033	178	32	7	6	9	15	18	7	18	14.000	.8
27	40034	179	7	7	7	15	15	9	18	12	11.250	.6
28	40035	180	15	2	4	4	6	7	5	6	6.125	.3
29	40036	181	5	6	6	3	6	15	39	27	13.375	.8
30	40037	182	22	12	9	7	6	6	15	12	11.125	.6

**DAILY SOLAR FLUX AND RELATIVE ZÜRICH SUNSPOT NUMBER ACTIVITY**

DAY OF MONTH	HJD. JULIAN DAY	SOLAR FLUX(10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER			RUNNING MEANS		
		DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY
1	40008 153	147.7	155.6	143.8	142.9	139	126.0	106.6	103.7	
2	40009 154	141.3	155.4	143.9	143.0	134	125.7	107.4	104.2	
3	40010 155	139.8	155.3	143.8	143.1	121	125.2	107.7	104.9	
4	40011 156	139.9	155.4	143.9	143.3	114	124.7	108.0	105.6	
5	40012 157	134.3	155.3	143.7	143.4	115	124.4	108.6	106.4	
6	40013 158	141.3	155.4	143.7	143.4	129	124.9	109.9	107.3	
7	40014 159	147.8	156.1	143.9	143.6	138	126.1	110.7	108.3	
8	40015 160	150.1	157.0	144.1	143.8	119	127.4	110.8	109.1	
9	40016 161	144.5	157.7	144.2	144.0	103	127.9	110.6	109.6	
10	40017 162	143.5	158.0	144.4	144.0	99	128.6	110.8	110.0	
11	40018 163	142.1	158.1	144.7	144.0	87	128.3	111.2	109.9	
12	40019 164	139.1	157.8	145.0	143.9	105	128.4	112.2	109.8	
13	40020 165	139.0	156.9	145.3	143.7	108	128.1	113.0	109.5	
14	40021 166	135.2	155.5	145.6	143.4	114	127.3	113.9	109.2	
15	40022 167	135.4	153.8	145.9	143.2	107	126.2	114.7	108.7	
16	40023 168	133.9	151.8	146.4	142.9	103	124.8	115.6	108.2	
17	40024 169	135.3	149.7	146.7	142.6	113	123.7	116.9	107.9	
18	40025 170	138.6	148.0	147.1	142.4	121	122.9	117.9	107.8	
19	40026 171	142.8	146.6	147.7	142.1	107	121.4	119.0	107.2	
20	40027 172	146.7	145.4	148.2	142.0	103	119.1	119.8	106.9	
21	40028 173	152.2	144.5	148.7	142.1	108	117.7	120.3	106.7	
22	40029 174	149.7	143.7	149.1	142.2	94	116.7	120.7	106.5	
23	40030 175	158.6	143.4	149.6	142.5	101	115.3	120.8	106.6	
24	40031 176	152.5	143.3	149.8	142.7	113	114.5	120.6	106.8	
25	40032 177	149.1	143.4	149.9	143.0	111	113.6	120.0	107.0	
26	40033 178	141.4	143.2	149.6	143.2	107	112.9	119.3	107.3	
27	40034 179	142.7	143.1	149.5	143.4	102	111.7	118.6	107.6	
28	40035 180	138.1	142.8	149.2	143.5	111	110.6	118.3	107.9	
29	40036 181	134.5	142.5	149.0	143.4	94	109.1	117.4	107.9	
30	40037 182	131.4	142.2	148.8	143.3	88	107.9	116.6	107.8	

MONTHLY AVERAGE	142.3
MONTHLY SMOOTHED	147.9

110.3  
106.6



## QUASI-LOGARITHMIC PLANETARY-THREE-HOUR (KP)-INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KF 1	KF 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP R	SUM KP	AVG. KP
1	40038 103	3.000	3.333	2.667	1.667	2.000	1.000	1.667	2.667	18.000	2.250
2	40039 104	3.333	1.667	1.667	2.333	2.000	2.000	2.333	2.333	17.665	2.208
3	40040 105	3.333	3.000	4.667	3.667	2.333	3.000	2.000	1.667	23.667	2.958
4	40041 106	1.333	2.667	3.000	2.667	2.667	2.000	3.000	1.667	19.000	2.375
5	40042 107	2.333	2.333	1.667	2.667	1.667	2.667	1.667	1.333	16.333	2.041
6	40043 108	2.000	2.000	2.000	2.333	2.000	2.000	1.000	.667	14.000	1.750
7	40044 109	1.000	1.667	3.000	2.333	1.000	2.333	1.667	1.000	14.000	1.750
8	40045 100	1.333	2.000	1.667	2.000	.667	2.333	1.333	1.000	12.332	1.541
9	40046 101	.333	1.000	1.333	1.000	.667	1.333	.667	2.333	8.666	1.083
10	40047 102	4.333	5.000	3.333	3.667	5.333	2.333	4.667	5.333	33.999	4.249
11	40048 103	3.333	3.333	2.000	1.000	1.000	1.667	3.000	2.667	18.000	2.250
12	40049 104	3.000	2.333	.667	1.000	1.333	2.333	1.333	1.000	12.998	1.624
13	40050 105	1.667	2.667	1.667	.667	.333	5.000	6.000	3.667	21.467	2.708
14	40051 106	5.667	4.667	2.333	2.333	3.000	2.333	3.333	2.333	25.999	3.249
15	40052 107	2.333	2.000	1.333	2.000	1.000	1.333	2.333	1.667	13.998	1.749
16	40053 108	2.000	2.000	2.000	1.000	1.667	4.000	2.667	1.333	16.667	2.083
17	40054 109	.667	1.000	1.000	1.333	2.000	1.333	2.333	2.000	11.666	1.458
18	40055 100	2.333	3.000	1.667	1.333	3.333	3.333	1.000	1.000	16.998	2.124
19	40056 201	1.333	2.000	2.333	2.333	1.333	2.333	1.333	3.000	15.998	1.999
20	40057 202	2.667	1.333	.333	.333	.667	1.000	1.333	1.000	8.666	1.083
21	40058 203	1.667	.667	1.000	1.333	2.333	3.000	3.000	2.667	15.667	1.958
22	40059 204	4.000	2.667	3.667	4.000	4.333	2.667	2.667	2.000	26.000	3.250
23	40060 205	2.000	2.333	3.667	2.667	3.333	2.667	1.333	1.667	19.667	2.458
24	40061 206	.667	.667	1.000	.667	.667	1.000	.667	.667	6.001	.750
25	40062 207	.667	1.000	1.333	1.333	3.000	3.000	1.667	1.667	13.666	1.708
26	40063 208	1.333	2.333	2.000	3.667	3.000	3.000	3.333	4.000	22.665	2.833
27	40064 209	3.333	3.333	3.000	2.667	2.667	1.333	1.333	1.333	18.999	2.374
28	40065 210	1.667	2.000	.667	1.333	1.667	2.667	3.000	1.667	14.667	1.833
29	40066 211	1.667	1.667	1.667	1.000	1.333	1.333	1.000	1.000	10.666	1.333
30	40067 212	1.333	1.333	1.000	1.000	2.000	2.333	3.000	2.000	13.998	1.749
31	40068 213	2.000	1.333	2.000	2.000	1.000	1.333	1.000	1.000	11.666	1.458

~~PLANETARY--AMPLITUDE--THREE--HOURLY--(AP)--INDICES--~~

491

JULY 1968

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			40038	40039	40040	40041	40042	40043	40044	40045	40046	40047	40048	40049	40050	40051	40052	40053	40054	40055	40056	40057	40058	40059	40060	40061	40062	40063	40064	40065	40066	40067	40068
			183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213
			124.1	116.3	113.3	112.2	115.5	116.2	130.6	142.3	148.6	151.8	157.4	163.8	150.6	150.9	143.2	144.7	139.5	130.9	131.0	129.6	128.8	134.7	141.6	148.0	153.3	149.6	142.4	139.3	140.0	134.4	
			141.6	141.0	139.9	136.6	137.3	136.3	135.8	135.8	136.2	136.6	137.5	138.4	139.0	139.6	139.8	139.8	139.5	138.8	138.1	137.0	136.1	136.1	135.6	135.6	135.8	136.3	136.9	137.3	137.9	138.8	
			148.5	148.1	147.7	147.3	147.2	147.0	146.9	147.0	147.0	146.8	146.5	146.1	145.4	144.7	143.9	143.2	142.5	141.6	140.9	140.2	139.7	139.7	139.5	139.4	139.5	139.6	139.7	139.8	139.8	139.9	
			143.1	142.8	142.5	142.1	141.8	141.6	141.5	141.7	142.0	142.4	142.9	143.4	143.9	144.4	144.7	145.1	145.3	145.4	145.4	145.4	145.2	145.1	145.0	144.9	144.9	145.0	145.0	145.0	145.0	145.0	
			55	37	30	26	28	41	54	89	91	99	124	152	147	138	123	129	117	96	102	93	93	86	93	101	124	130	127	114	129	115	
			105.7	102.7	99.2	95.0	91.7	89.4	87.7	87.8	87.3	86.9	87.3	89.0	90.6	91.5	91.6	92.4	92.9	92.5	92.6	92.5	91.7	90.8	90.3	90.3	90.7	92.1	93.5	95.9	99.3	102.4	
			115.2	113.6	112.0	110.6	109.6	109.6	109.1	109.0	107.8	107.5	107.3	107.6	107.7	107.6	107.3	106.9	106.0	105.1	104.7	103.9	103.1	102.2	101.6	101.0	100.7	100.6	100.7	100.8	101.1	101.8	
			107.3	106.7	106.3	105.5	104.4	103.5	103.1	103.4	103.9	104.3	105.1	106.1	107.3	108.4	109.1	110.1	110.9	111.0	111.4	111.4	111.0	110.2	109.6	109.2	109.1	109.0	108.9	108.8	108.7	108.7	

MONTHLY AVERAGE 137.2  
MONTHLY SMOOTHED 147.4

96.1  
105.2

AUGUST 1968

GEOMAGNETIC PLANETARY INDICES  
QUASI-LOGARITHMIC PLANETARY-THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	40569 214	.667	.667	.667	1.333	1.333	1.000	.667	.667	.667	7.000	.875
2	40570 215	.667	.667	1.000	1.333	1.333	.667	1.000	.667	1.333	7.666	.958
3	40571 216	1.667	1.667	3.333	2.000	2.333	2.333	3.333	2.000	1.333	19.999	2.499
4	40572 217	3.660	3.660	2.000	1.667	1.000	.333	.333	.333	1.667	10.332	1.291
5	40573 218	1.333	1.333	2.667	.667	3.000	3.200	3.333	2.667	3.333	20.000	2.500
6	40574 219	3.333	3.333	4.000	3.000	3.000	2.000	2.333	3.667	2.667	24.000	3.000
7	40575 220	3.333	3.333	3.000	3.333	3.333	3.000	2.000	1.667	2.333	21.665	2.708
8	40576 221	4.333	4.333	3.333	3.667	1.333	2.667	1.667	1.667	2.667	21.333	2.666
9	40577 222	3.333	3.333	2.333	2.333	1.667	2.333	3.000	3.667	3.333	21.999	2.749
10	40578 223	2.667	2.667	1.667	2.000	2.333	1.000	2.333	1.000	2.000	15.000	1.875
11	40579 224	2.667	2.667	2.000	2.333	1.000	.667	1.000	1.000	.667	11.333	1.416
12	40580 225	2.000	2.000	1.333	1.667	1.333	1.333	2.333	2.333	1.333	12.664	1.583
13	40581 226	.667	.667	1.333	.333	.667	2.000	2.333	4.667	3.667	15.667	1.958
14	40582 227	4.667	4.667	3.000	4.000	4.000	4.667	3.333	4.000	4.000	31.667	3.958
15	40583 228	3.000	3.000	4.000	4.333	4.333	4.000	3.333	3.000	3.333	28.999	3.624
16	40584 229	4.333	4.333	4.333	3.667	2.333	4.000	5.333	5.667	6.000	35.665	4.458
17	40585 230	5.000	5.000	5.333	4.667	4.333	4.000	5.667	3.333	3.667	36.000	4.500
18	40586 231	3.000	3.000	4.000	3.000	3.000	3.333	2.667	3.000	3.667	26.667	3.333
19	40587 232	3.000	3.000	2.667	3.000	3.000	2.333	2.000	1.667	1.000	18.667	2.333
20	40588 233	1.667	1.667	1.333	1.333	1.667	2.000	2.000	1.333	2.000	13.332	1.666
21	40589 234	1.000	1.000	1.333	1.667	1.000	.667	.667	1.333	1.000	8.666	1.083
22	40590 235	.667	.667	.333	.333	1.333	1.333	1.333	1.667	2.667	9.666	1.208
23	40591 236	2.000	2.000	3.667	2.333	1.333	1.333	2.333	3.667	2.667	19.332	2.416
24	40592 237	3.667	3.667	4.667	4.667	3.000	2.667	1.667	2.667	2.333	25.335	3.166
25	40593 238	1.333	1.333	.333	.333	.333	.333	.667	3.000	1.333	7.665	.958
26	40594 239	.333	.333	.667	.667	1.333	1.667	1.333	.667	1.000	7.666	.958
27	40595 240	2.000	2.000	2.333	1.000	1.333	.667	1.000	1.667	.667	10.666	1.333
28	40596 241	1.000	1.000	1.000	.667	.667	.667	1.000	1.333	1.000	7.333	.916
29	40597 242	.667	.667	.000	.333	.333	.333	.667	.667	.667	3.667	.458
30	40598 243	1.000	1.000	.333	.333	.333	.333	.333	.667	1.000	4.331	.541
31	40599 244	1.667	1.667	2.333	2.000	3.000	3.333	4.333	3.333	2.000	21.999	2.749

~~PLANETARY AMPLITUDE-THREE-HOURLY-(AP)-INDICES-~~

[illegible]

AUGUST 1968

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			40669	40670	40671	40672	40673	40674	40675	40676	40677	40678	40679	40680	40681	40682	40683	40684	40685	40686	40687	40688	40689	40690	40691	40692	40693	40694	40695	40696	40697	40698	40699
			214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244
			132.3	133.3	136.8	131.8	132.1	143.8	136.0	137.9	142.7	142.7	146.7	157.4	166.5	180.4	181.0	174.6	165.1	160.8	156.1	156.2	155.0	150.3	134.7	128.0	121.5	115.6	112.1	117.1	119.3	123.2	121.2
			140.8	141.3	141.5	141.1	140.5	140.2	139.4	138.6	138.3	138.0	138.1	138.6	139.6	141.4	143.3	145.0	146.3	147.3	147.8	148.1	148.2	148.2	147.9	147.5	146.8	146.1	145.4	144.9	144.5	144.0	143.6
			139.0	138.8	136.7	138.5	138.3	138.4	136.4	138.5	138.7	138.8	138.9	139.2	139.6	140.1	140.7	141.0	141.2	141.4	141.7	141.9	142.3	142.6	142.6	142.7	142.8	142.8	142.8	142.9	142.9	142.8	142.4
			145.0	145.1	145.1	145.0	144.8	144.6	144.1	143.6	143.0	142.4	142.0	141.7	141.5	141.6	141.7	141.8	141.9	142.1	142.2	142.3	142.5	142.5	142.5	142.3	142.2	141.9	141.4	141.0	140.7	140.4	140.2
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			98	91	92	94	94	95	100	113	98	90	104	116	142	165	172	170	160	148	136	122	138	143	126	108	86	77	67	49	64	68	63
			107.5	107.3	110.7	110.9	111.0	110.9	110.0	108.6	106.7	105.0	104.3	103.8	104.7	107.3	109.9	112.7	115.2	117.5	119.1	119.9	120.4	120.9	120.8	120.4	118.9	117.4	116.5	114.7	113.7	112.8	111.6
			99.6	99.4	99.2	99.4	99.1	98.9	98.5	98.3	98.7	98.2	97.9	98.1	98.8	99.9	101.3	102.6	103.5	104.1	104.7	105.1	105.6	106.5	107.2	108.1	109.1	109.9	110.7	111.1	111.5	111.8	111.3
			108.9	108.9	109.0	109.0	108.9	108.7	108.2	107.9	107.4	106.7	106.3	105.9	105.6	105.8	106.4	106.8	107.1	107.3	107.4	107.3	107.2	107.4	107.4	107.3	107.0	106.3	105.5	104.6	104.1	103.7	103.4

MONTHLY AVERAGE 142.2  
MONTHLY SMOOTHED 145.5

109.3  
104.0

QUASI-LOGARITHMIC-PLANETARY-THREE-HOUR(KP) INDICES-

DAY OF MONTH	MOD. JULIAN DAY	DAY OF YEAR	KP								SUM KP	AVG. KP
			1	2	3	4	5	6	7	8		
1	40109	245	3.667	2.000	2.333	3.333	1.667	1.333	1.000	1.000	16.332	2.041
2	40101	246	1.667	.667	1.667	3.667	3.333	1.667	2.000	3.000	17.667	2.208
3	40102	247	3.000	2.667	2.333	3.667	2.667	3.667	4.000	4.000	26.000	3.250
4	40103	248	3.000	2.667	2.667	3.667	3.333	3.000	1.333	2.667	22.333	2.791
5	40104	249	1.667	3.000	3.333	2.667	3.333	1.667	1.667	3.000	20.333	2.541
6	40105	250	3.000	3.667	3.333	1.000	3.000	3.667	3.667	4.333	25.667	3.208
7	40106	251	3.333	2.333	2.333	2.667	2.333	2.667	3.000	5.333	23.999	2.999
8	40107	252	5.667	5.667	5.333	5.667	4.000	5.667	4.000	1.667	37.667	4.708
9	40108	253	3.667	3.000	2.000	3.333	3.667	1.333	2.667	2.000	21.667	2.708
10	40109	254	1.667	2.000	1.000	2.333	2.000	2.333	1.000	.667	13.000	1.625
11	40110	255	2.000	2.333	1.667	1.000	.333	.333	.333	.333	8.332	1.041
12	40111	256	1.333	2.667	3.000	2.667	4.667	4.000	3.333	3.667	25.333	3.166
13	40112	257	5.333	5.667	4.000	4.667	5.000	4.667	4.667	4.000	38.000	4.750
14	40113	258	4.667	4.333	4.333	4.000	4.000	4.333	3.333	3.667	32.665	4.083
15	40114	259	4.667	4.667	4.000	3.000	3.667	5.000	4.333	3.000	32.334	4.041
16	40115	260	3.000	3.667	2.000	2.000	2.000	1.333	2.333	2.000	18.332	2.291
17	40116	261	2.333	2.000	2.667	1.667	1.000	1.333	1.000	.332	12.332	1.541
18	40117	262	.333	1.000	.667	.667	.667	.667	.333	2.000	6.333	.791
19	40118	263	2.667	4.333	3.000	3.000	2.000	1.667	.667	.667	18.000	2.250
20	40119	264	2.333	3.667	3.333	.667	.667	.667	1.667	1.667	11.667	1.458
21	40120	265	1.333	3.333	3.667	1.000	3.333	3.667	2.333	1.000	19.665	2.458
22	40121	266	2.667	1.000	1.667	2.333	2.667	2.000	2.667	4.000	19.000	2.375
23	40122	267	4.000	4.667	2.667	4.000	4.333	4.333	.667	1.000	25.667	3.208
24	40123	268	.667	.333	.333	.667	.667	.667	2.333	1.000	6.666	.833
25	40124	269	.667	.000	.000	.667	.667	1.333	.667	.667	4.667	.583
26	40125	270	1.667	1.000	1.333	1.000	1.667	1.667	.667	.333	9.333	1.166
27	40126	271	.000	1.667	1.000	.667	.667	.333	.333	1.000	5.666	.708
28	40127	272	2.000	1.000	2.000	2.000	2.333	2.000	3.000	2.667	17.000	2.125
29	40128	273	3.000	2.333	1.667	1.333	1.000	2.333	2.667	2.333	16.665	2.083
30	40129	274	1.000	.667	.333	.333	1.667	2.000	3.000	3.000	12.000	1.500

# GEOMAGNETIC PLANETARY INDICES

PLANETARY--AMPLITUDE--THREE--HOURLY--(AP)--INDICES--

497



DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY-

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	SOLAR FLUX (10.7CM OFF-AWAY)		RUNNING MEANS		RELATIVE ZURICH-SUNSPOT-NUMBER	
			DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY	DAILY 27-DAY	54-DAY
1	49100	245	127.2	143.4	142.0	140.0	1	78
2	49101	246	131.8	143.0	141.6	140.0	1	82
3	49102	247	140.4	143.2	141.3	140.0	1	119
4	49103	248	140.8	143.3	140.9	140.1	1	118
5	49104	249	137.4	143.1	140.7	140.1	1	111
6	49105	250	133.9	142.8	140.4	140.1	1	96
7	49106	251	139.0	142.6	140.3	140.1	1	90
8	49107	252	147.2	142.1	140.3	140.2	1	106
9	49108	253	147.3	141.9	140.5	140.2	1	128
10	49109	254	154.0	140.4	140.9	140.2	1	138
11	49110	255	150.5	139.3	141.3	140.2	1	145
12	49111	256	154.0	138.5	141.7	140.2	1	150
13	49112	257	148.7	137.9	142.1	140.1	1	153
14	49113	258	144.8	137.3	142.3	140.1	1	113
15	49114	259	134.2	136.5	142.2	140.0	1	88
16	49115	260	130.6	135.5	141.8	139.8	1	84
17	49116	261	130.2	134.6	141.4	139.7	1	81
18	49117	262	127.6	133.8	141.0	139.6	1	85
19	49118	263	126.2	133.5	140.7	139.6	1	88
20	49119	264	126.4	133.4	140.5	139.6	1	84
21	49120	265	132.5	133.8	142.3	139.8	1	90
22	49121	266	126.6	134.2	140.2	140.0	1	99
23	49122	267	125.9	134.7	140.1	140.1	1	118
24	49123	268	142.1	135.7	140.3	140.5	1	149
25	49124	269	157.3	137.1	140.8	141.0	1	187
26	49125	270	159.2	134.4	141.2	141.3	1	184
27	49126	271	157.2	139.7	141.7	141.5	1	176
28	49127	272	158.2	140.9	142.2	141.6	1	149
29	49128	273	153.5	141.7	142.3	141.6	1	137
30	49129	274	143.9	141.6	142.5	141.5	1	91
MONTHLY AVERAGE			141.0					117.2
MONTHLY SMOOTHED			146.0					107.0

OCTOBER 1968

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE-HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	40130 275	4.667	4.333	4.333	1.333	2.667	2.333	2.000	2.333	3.333	22.999	2.874
2	40131 276	5.667	5.667	5.667	4.667	5.667	5.667	4.000	3.333	4.000	38.667	4.833
3	40132 277	5.667	5.333	5.333	5.333	5.333	2.000	1.000	.667	.000	24.667	3.083
4	40133 278	.333	.667	1.000	1.000	.333	1.000	2.000	.667	.333	6.333	.791
5	40134 279	.333	.000	1.000	1.000	2.000	1.000	.667	.000	.000	5.000	.625
6	40135 280	.667	.000	3.000	3.000	2.333	1.667	1.333	2.000	1.667	12.666	1.583
7	40136 281	3.000	2.667	2.667	.667	.667	1.667	3.000	4.333	4.000	22.000	2.750
8	40137 282	3.333	1.667	1.000	1.333	.667	2.000	2.000	2.000	1.667	13.666	1.708
9	40138 283	3.333	3.000	.667	.667	.667	2.000	3.000	1.333	2.000	16.000	2.000
10	40139 284	3.667	.667	.667	1.667	1.667	.667	.333	.333	.667	9.667	1.208
11	40140 285	.000	.000	1.000	.667	.667	.333	.667	1.000	1.000	4.666	.583
12	40141 286	4.333	5.667	5.000	4.667	4.667	4.333	5.667	6.333	4.333	40.332	5.041
13	40142 287	5.333	4.333	4.333	4.333	4.333	4.000	3.667	3.333	3.667	32.999	4.124
14	40143 288	3.333	3.667	2.333	2.667	2.667	2.333	2.667	2.333	3.667	23.000	2.875
15	40144 289	.667	1.333	1.333	1.667	.667	2.000	2.333	.667	1.000	9.666	1.208
16	40145 290	.333	1.333	1.667	1.667	.667	2.000	2.333	1.333	1.000	10.666	1.333
17	40146 291	2.667	2.667	1.667	1.333	1.333	2.333	2.333	2.000	2.333	17.332	2.166
18	40147 292	2.667	3.000	2.333	2.000	2.000	1.000	1.000	1.000	1.333	14.332	1.791
19	40148 293	1.333	.667	1.333	2.667	2.667	2.667	1.000	4.000	3.667	17.333	2.166
20	40149 294	2.333	1.333	2.667	2.667	2.667	1.667	1.667	.667	.333	13.333	1.666
21	40150 295	.000	.000	.333	.667	.667	.333	1.000	.333	.333	2.999	.374
22	40151 296	.000	.000	.000	.000	.000	.667	.333	.333	.333	1.666	.208
23	40152 297	.000	.000	.333	.333	.333	.667	1.333	1.667	1.000	5.333	.666
24	40153 298	1.000	1.000	.333	1.000	1.000	1.333	2.667	3.667	1.333	12.332	1.541
25	40154 299	.333	2.000	2.000	2.667	2.667	2.000	1.000	1.667	2.000	13.666	1.708
26	40155 300	.667	.333	1.000	1.667	1.667	.667	.667	2.667	2.333	10.000	1.250
27	40156 301	2.667	1.333	2.667	1.000	1.000	2.000	1.000	.667	1.000	12.333	1.541
28	40157 302	1.333	.000	2.000	.333	.333	1.000	.667	.667	3.333	9.332	1.166
29	40158 303	3.333	3.333	2.667	3.333	3.333	5.000	6.000	5.667	4.333	33.665	4.208
30	40159 304	2.667	2.333	1.333	3.667	3.667	4.000	2.667	2.667	3.667	23.000	2.875
31	40160 305	4.667	4.333	5.000	7.333	7.333	8.000	8.000	7.000	6.000	50.333	6.291

## PLANETARY--AMPLITUDE--THREE--HOURLY--(AP)--INDICES--

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
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## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY.

DAY OF MONTH	MO.-DAY OF YEAR	SOLAR-FLUX(10.7CM OTTAWA)		RUNNING MEANS		RELATIVE-ZURICH-SUNSPOT-NUMBER		RUNNING MEANS	
		DAILY 27-DAY	54-DAY	DAILY 81-DAY	156-DAY	DAILY 27-DAY	54-DAY	81-DAY	156-DAY
1	40130 275	136.2	141.7	142.5	141.2	75	118.3	114.9	112.8
2	40131 276	136.2	141.6	142.3	141.0	73	116.9	114.4	111.9
3	40132 277	145.1	142.0	142.4	140.9	108	117.4	114.8	111.5
4	40133 278	146.1	142.3	142.4	141.0	119	118.4	115.0	111.4
5	40134 279	147.9	142.3	142.2	141.0	118	118.9	115.1	111.3
6	40135 280	145.4	142.2	141.8	141.1	126	118.8	114.8	111.4
7	40136 281	147.5	142.0	141.2	141.3	135	118.7	114.2	111.9
8	40137 282	141.9	141.7	140.5	141.4	112	117.5	113.1	112.0
9	40138 283	137.7	141.1	139.8	141.5	87	115.1	111.6	111.9
10	40139 284	135.0	140.6	139.2	141.6	70	112.1	109.9	111.7
11	40140 285	134.4	140.2	138.7	141.6	95	111.4	108.9	111.8
12	40141 286	137.3	140.3	138.4	141.5	99	111.8	108.2	111.9
13	40142 287	127.0	140.2	137.9	141.3	70	111.3	107.3	111.5
14	40143 288	132.0	140.3	137.5	141.0	76	111.1	106.1	110.9
15	40144 289	137.8	140.7	137.2	140.9	90	111.3	105.1	110.4
16	40145 290	138.2	141.1	137.3	140.8	88	111.3	104.4	109.9
17	40146 291	143.5	141.7	137.6	140.9	82	111.2	104.0	109.5
18	40147 292	150.8	142.4	138.1	141.0	108	111.9	104.4	109.2
19	40148 293	154.9	143.5	138.8	141.3	112	112.4	105.0	109.2
20	40149 294	156.9	144.6	139.7	141.6	114	112.2	105.9	109.4
21	40150 295	164.8	145.4	140.6	142.0	122	111.2	107.2	109.7
22	40151 296	166.5	145.8	141.4	142.5	134	109.3	108.5	110.2
23	40152 297	168.7	146.1	142.3	142.9	136	107.5	109.8	110.8
24	40153 298	175.2	146.8	143.3	143.4	139	106.1	111.2	111.3
25	40154 299	173.8	147.4	144.1	143.9	138	105.7	112.3	111.9
26	40155 300	174.6	148.2	144.9	144.3	133	105.6	113.3	112.4
27	40156 301	175.1	149.3	145.6	144.8	138	107.3	113.6	112.8
28	40157 302	173.3	150.7	146.2	145.2	118	108.9	113.6	112.9
29	40158 303	193.8	152.0	147.2	145.0	114	110.4	113.7	113.1
30	40159 304	166.2	153.6	147.8	146.1	112	110.6	114.0	113.4
31	40160 305	161.9	154.2	148.2	146.3	99	109.8	114.1	113.3

MONTHLY AVERAGE 152.5  
MONTHLY SMOOTHED 148.3

107-7-  
109.9

NOVEMBER 1968

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE-HOUR (KP) INDICES

DAY OF MONTH	MON. DAY JULIAN OF YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	40161 306	5.333	3.000	2.667	4.000	8.333	8.000	7.000	8.333	48.665	6.083
2	40162 307	7.667	7.333	5.667	4.667	5.000	5.000	4.000	6.333	45.666	5.708
3	40163 308	6.667	4.333	4.333	2.667	4.667	4.333	2.667	2.667	32.334	4.031
4	40164 309	3.000	4.000	4.333	4.000	4.667	3.000	5.000	2.667	30.667	3.833
5	40165 310	.333	2.333	2.000	1.333	2.333	.333	2.000	2.000	12.664	1.583
6	40166 311	.667	1.000	.667	1.000	1.000	1.333	2.333	3.667	11.666	1.458
7	40167 312	4.000	4.667	4.333	2.333	3.667	1.333	.667	.333	21.332	2.666
8	40168 313	.000	.667	2.667	2.000	3.667	3.000	2.000	2.667	16.667	2.083
9	40169 314	4.333	4.000	4.000	4.000	4.000	3.667	2.667	1.000	27.667	3.458
10	40170 315	1.000	3.333	1.333	2.667	3.667	3.333	2.333	2.333	19.999	2.499
11	40171 316	3.333	3.667	3.333	2.333	3.333	1.667	.333	1.333	19.332	2.416
12	40172 317	2.333	.667	.667	.667	.333	.333	.000	.333	5.333	.666
13	40173 318	.333	.667	1.000	2.000	1.333	1.333	2.333	2.333	11.332	1.416
14	40174 319	.333	.333	.667	.333	1.000	1.000	1.667	2.000	7.333	.916
15	40175 320	.667	1.333	1.000	.667	.000	.333	.333	.667	5.000	.625
16	40176 321	1.333	1.000	.667	3.000	4.667	4.333	3.333	3.333	21.665	2.708
17	40177 322	3.333	2.000	3.667	2.000	3.000	4.000	4.333	3.667	26.000	3.250
18	40178 323	4.667	4.667	4.000	3.667	1.333	3.000	2.667	3.333	27.333	3.416
19	40179 324	2.333	2.000	1.667	2.333	2.000	1.333	.000	.667	12.332	1.541
20	40180 325	.667	1.000	1.000	4.333	4.667	4.000	3.333	1.667	20.667	2.583
21	40181 326	1.667	1.000	.667	.667	.667	2.333	2.333	3.000	12.333	1.541
22	40182 327	1.667	.667	.667	1.333	1.333	.667	1.667	2.667	10.667	1.333
23	40183 328	2.333	3.667	1.667	.333	1.000	.333	.333	1.000	10.666	1.333
24	40184 329	2.000	.667	.667	.667	.667	2.667	1.333	1.333	13.000	1.250
25	40185 330	2.667	2.000	1.667	1.667	2.333	1.667	2.667	.667	15.335	1.916
26	40186 331	1.333	1.000	1.000	2.000	2.333	2.667	1.667	2.333	14.332	1.791
27	40187 332	3.333	3.333	1.667	1.667	1.333	1.667	1.667	3.000	17.667	2.204
28	40188 333	1.333	2.000	1.333	2.000	1.667	1.333	2.667	2.333	14.666	1.833
29	40189 334	2.333	.667	.667	1.000	1.333	2.000	.000	.000	8.000	1.000
30	40190 335	.000	.000	.000	.333	.333	.333	1.333	1.333	3.665	.458

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE HOURLY (A.P.) INOICES-

503

NOVEMBER 1968

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD- JULIAN DAY	DAY YEAR	1- DAILY	2- DAILY	3- DAILY	4- DAILY	5- DAILY	6- DAILY	7- DAILY	8- DAILY	9- DAILY	10- DAILY	11- DAILY	12- DAILY	13- DAILY	14- DAILY	15- DAILY	16- DAILY	17- DAILY	18- DAILY	19- DAILY	20- DAILY	21- DAILY	22- DAILY	23- DAILY	24- DAILY	25- DAILY	26- DAILY	27- DAILY	28- DAILY	29- DAILY	30- DAILY
1	40161	306	1	155.7	154.5	148.4	146.3	1	89	108.7	113.8	113.0																				
2	40162	307	1	154.0	154.8	148.5	146.1	1	76	106.9	112.9	112.1																				
3	40163	308	1	148.5	154.9	148.4	145.7	1	76	102.7	111.7	111.0																				
4	40164	309	1	142.7	154.9	148.3	145.3	1	81	103.6	110.5	109.9																				
5	40165	310	1	135.2	154.8	147.9	144.0	1	97	103.9	109.5	109.0																				
6	40166	311	1	133.8	154.7	147.6	144.4	1	92	104.7	108.4	108.2																				
7	40167	312	1	131.5	154.6	147.4	144.0	1	92	104.6	108.0	107.5																				
8	40168	313	1	135.7	154.6	147.4	143.8	1	89	104.3	108.0	106.9																				
9	40169	314	1	138.0	155.0	147.6	143.6	1	105	105.6	108.4	106.7																				
10	40170	315	1	139.0	155.2	147.7	143.4	1	111	106.9	109.0	106.4																				
11	40171	316	1	135.3	155.1	147.9	143.2	1	106	107.4	109.4	105.9																				
12	40172	317	1	132.1	154.8	148.0	143.1	1	94	107.7	109.5	105.5																				
13	40173	318	1	134.3	154.5	148.1	143.2	1	94	108.1	109.7	105.3																				
14	40174	319	1	134.1	153.9	148.1	143.4	1	85	107.3	109.6	105.3																				
15	40175	320	1	136.5	153.2	148.3	143.6	1	84	106.2	109.3	105.4																				
16	40176	321	1	133.5	152.2	148.4	143.9	1	84	105.1	108.7	105.6																				
17	40177	322	1	143.9	151.4	148.4	144.2	1	82	103.6	107.4	106.0																				
18	40178	323	1	151.5	150.9	148.3	144.6	1	77	101.5	105.4	106.2																				
19	40179	324	1	144.8	150.0	148.1	144.0	1	80	99.4	103.5	106.3																				
20	40180	325	1	142.5	148.8	147.8	145.1	1	92	97.7	101.9	106.7																				
21	40181	326	1	137.1	147.4	147.4	145.2	1	84	95.7	100.7	106.8																				
22	40182	327	1	134.4	145.9	147.0	145.3	1	61	93.9	99.7	106.8																				
23	40183	328	1	135.7	144.5	146.9	145.2	1	76	91.5	99.4	106.2																				
24	40184	329	1	137.8	143.2	146.9	145.2	1	67	89.6	99.2	105.6																				
25	40185	330	1	138.9	141.1	147.0	145.2	1	80	80.3	99.4	105.2																				
26	40186	331	1	138.0	140.1	146.9	145.2	1	89	87.5	99.0	105.1																				
27	40187	332	1	137.8	139.2	146.7	145.2	1	87	82.0	98.4	105.1																				
28	40188	333	1	133.2	138.4	146.0	145.1	1	73	86.4	97.6	104.7																				
29	40189	334	1	131.9	137.6	146.2	144.9	1	73	86.3	96.6	104.0																				
30	40190	335	1	132.3	137.0	145.9	144.6	1	83	86.6	95.6	103.3																				

MONTHLY AVERAGE 138.5 86.0  
MONTHLY SMOOTHED 149.0 110.6

MONTHLY AVERAGE 138.5  
MONTHLY SMOOTHED 149.0

86.0  
110.6

DECEMBER 1968

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC-PLANETARY-THREE-HOUR(KP)INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	40191 336	1.667	2.667	2.000	2.000	3.000	3.333	1.667	.333	16.667	2.083
2	40192 337	.667	.333	1.667	2.000	1.667	2.333	1.667	1.667	12.000	1.500
3	40193 338	1.667	4.333	3.000	2.333	4.000	3.333	2.667	4.000	25.332	3.106
4	40194 339	4.667	1.000	4.000	3.667	3.333	4.000	3.667	2.333	26.667	3.333
5	40195 340	2.667	3.000	5.333	5.000	4.000	2.667	3.333	2.667	28.667	3.583
6	40196 341	3.667	3.333	1.667	2.333	1.000	.333	1.333	1.667	15.332	1.916
7	40197 342	1.333	.333	.333	.667	1.000	2.667	1.333	1.000	8.666	1.083
8	40198 343	2.000	3.000	3.000	1.667	2.667	1.667	2.333	3.000	19.333	2.416
9	40199 344	1.333	1.000	.667	1.000	1.000	1.667	2.000	2.667	11.333	1.416
10	40200 345	3.667	3.333	3.333	3.333	2.667	.667	1.333	2.667	21.000	2.625
11	40201 346	2.000	1.333	1.000	.333	1.000	2.667	2.667	1.333	12.332	1.541
12	40202 347	3.667	3.000	1.000	1.000	1.000	1.333	2.000	.667	13.666	1.708
13	40203 348	2.000	1.333	.000	.667	1.000	2.333	2.667	1.000	11.000	1.375
14	40204 349	.667	.333	1.000	1.000	1.333	.667	.333	.667	6.000	.750
15	40205 350	1.667	2.000	1.667	.333	2.000	1.333	1.667	2.333	13.000	1.625
16	40206 351	2.000	3.333	1.333	1.333	2.000	1.333	1.667	2.667	15.666	1.958
17	40207 352	2.667	1.667	1.000	.667	.667	.333	.333	.333	7.666	.958
18	40208 353	2.000	2.333	1.000	1.333	2.000	2.000	2.333	2.333	15.332	1.916
19	40209 354	3.333	2.333	2.667	2.000	2.667	2.667	2.667	3.000	21.333	2.666
20	40210 355	2.000	.667	1.667	.667	.667	.333	.333	.000	6.333	.791
21	40211 356	2.667	2.000	2.000	2.667	2.333	3.000	2.333	4.333	21.332	2.666
22	40212 357	4.000	3.333	2.333	1.667	2.667	3.000	2.667	.667	20.333	2.541
23	40213 358	1.667	1.667	2.333	2.667	3.667	3.333	3.333	3.333	22.000	2.750
24	40214 359	2.667	2.000	2.000	1.000	2.000	2.333	1.000	3.667	16.667	2.083
25	40215 360	3.667	5.000	4.667	3.667	1.667	2.000	1.333	3.000	25.000	3.125
26	40216 361	1.333	.667	.667	1.000	.667	.667	1.333	.667	7.000	.875
27	40217 362	2.000	3.000	4.000	3.667	3.333	1.667	1.000	1.333	20.000	2.500
28	40218 363	1.000	1.000	1.000	1.667	1.667	2.000	1.333	1.667	11.333	1.416
29	40219 364	1.667	1.000	.333	1.667	2.333	3.333	2.333	3.333	15.998	1.999
30	40220 365	2.000	2.333	2.000	2.000	2.333	1.333	2.667	1.667	16.332	2.041
31	40221 366	3.333	1.333	1.000	1.000	1.000	2.333	3.000	4.000	16.998	2.124



## PLANETARY--AMPLITUDE--THREE HOURLY--(AP)--INDICES--

[illegible]

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MO. DAY	JULIAN DAY	YEAR	SOLAR FLUX 10.7 CM. OTTAWA			RELATIVE ZURICH SUNSPOT NUMBER					
				DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY			
1	40191	336	1	144.2	137.0	146.0	144.5	1	104	87.4	95.5	102.9
2	40192	337	1	154.2	137.7	146.3	144.5	1	109	87.9	95.9	102.3
3	40193	338	1	154.1	138.5	146.6	144.6	1	113	86.7	96.7	101.8
4	40194	339	1	152.3	139.2	146.9	144.7	1	116	87.6	97.1	101.9
5	40195	340	1	151.0	139.8	147.2	144.9	1	118	90.6	97.4	102.2
6	40196	341	1	147.2	140.2	147.6	145.1	1	117	91.1	98.3	102.6
7	40197	342	1	144.5	140.4	147.8	145.3	1	116	91.3	99.1	103.1
8	40198	343	1	146.2	140.8	147.9	145.5	1	122	91.9	99.6	103.5
9	40199	344	1	150.1	141.5	148.1	145.8	1	130	93.2	100.4	104.0
10	40200	345	1	152.6	142.1	148.3	146.1	1	117	94.0	101.1	104.5
11	40201	346	1	148.2	142.7	148.3	146.3	1	101	94.6	102.9	104.6
12	40202	347	1	143.4	142.9	148.1	146.5	1	68	94.0	100.1	104.2
13	40203	348	1	135.7	143.1	147.7	146.6	1	75	93.7	99.4	103.7
14	40204	349	1	138.6	142.9	147.2	146.6	1	81	93.7	98.6	102.0
15	40205	350	1	136.4	142.4	146.7	146.4	1	84	93.9	97.7	101.6
16	40206	351	1	131.2	141.9	146.0	146.0	1	67	93.4	96.4	100.1
17	40207	352	1	134.5	141.6	145.2	145.7	1	77	92.9	95.3	98.9
18	40208	353	1	138.3	141.7	144.6	145.5	1	93	93.2	94.5	98.2
19	40209	354	1	146.6	142.1	145.0	145.4	1	101	94.0	93.9	97.8
20	40210	355	1	149.5	142.6	143.6	145.5	1	102	94.9	93.2	97.9
21	40211	356	1	152.0	143.2	143.2	145.7	1	107	96.4	93.0	98.3
22	40212	357	1	152.2	143.7	142.4	145.9	1	114	97.7	93.0	98.8
23	40213	358	1	151.3	144.1	142.1	145.9	1	114	98.6	93.0	98.9
24	40214	359	1	159.3	144.9	142.1	146.1	1	125	100.0	93.5	98.9
25	40215	360	1	160.6	145.9	147.2	146.3	1	131	102.1	94.3	99.1
26	40216	361	1	159.3	147.0	142.3	146.4	1	140	104.6	95.5	99.3
27	40217	362	1	149.1	148.3	142.6	146.7	1	148	107.0	96.3	99.4
28	40218	363	1	155.8	148.7	142.9	146.9	1	139	106.3	97.9	99.8
29	40219	364	1	147.6	148.5	143.1	147.0	1	139	109.4	98.7	100.4
30	40220	365	1	149.1	148.3	143.4	147.2	1	119	109.7	99.2	101.0
31	40221	366	1	144.4	148.0	143.6	147.3	1	117	109.7	99.6	101.3

MONTHLY AVERAGE 148.4  
MONTHLY SMOOTHED 149.4

109.8  
110.1

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY-THREE-HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	KP	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	40222	1	2.667	1.333	1.333	2.667	2.333	2.000	1.333	2.000	15.666	1.958
2	40223	2	.333	2.333	.333	.667	1.333	1.333	.333	.000	6.665	.833
3	40224	3	.000	.000	.000	.333	1.000	.000	.333	.333	1.999	.249
4	40225	4	.000	.333	.000	.667	1.667	.333	1.333	1.000	5.333	.666
5	40226	5	1.000	1.667	.333	.667	.667	.333	.000	.667	5.333	.666
6	40227	6	.000	.000	.333	.667	.333	.333	.000	.333	1.999	.249
7	40228	7	.000	2.333	1.333	3.000	3.333	1.000	2.667	2.000	15.666	1.958
8	40229	8	2.667	2.667	2.000	1.667	.667	1.000	2.333	2.667	15.667	1.958
9	40230	9	2.000	2.000	1.333	.333	.667	.667	.667	1.667	9.333	1.166
10	40231	10	.667	.667	.667	.667	1.333	.667	1.000	.000	5.667	.708
11	40232	11	.000	.333	1.333	.667	2.000	1.333	2.000	2.000	9.666	1.208
12	40233	12	1.333	1.333	1.333	2.000	2.333	2.000	1.000	.333	11.664	1.458
13	40234	13	.000	.000	.333	.667	.667	.000	.000	.667	2.334	.291
14	40235	14	2.667	2.333	2.333	2.333	1.333	1.000	2.333	3.000	17.332	2.166
15	40236	15	3.333	3.667	2.000	2.000	2.333	2.333	4.000	1.667	21.332	2.666
16	40237	16	2.000	2.333	2.000	3.000	3.333	2.333	.667	3.000	18.665	2.333
17	40238	17	4.333	4.000	3.000	3.000	3.333	3.667	3.667	3.333	28.332	3.541
18	40239	18	3.333	3.000	3.333	4.667	3.333	2.667	3.000	3.667	27.000	3.375
19	40240	19	3.667	2.333	2.333	2.333	2.333	1.333	2.667	2.667	19.665	2.458
20	40241	20	2.667	3.333	2.000	1.333	2.333	2.000	2.667	3.000	19.332	2.416
21	40242	21	2.333	2.000	1.667	2.000	.667	1.000	2.333	.667	12.666	1.583
22	40243	22	.667	1.000	1.333	1.333	.333	.667	.667	1.000	7.000	.875
23	40244	23	.333	.333	.667	.667	1.667	1.667	1.667	2.333	9.333	1.166
24	40245	24	.667	.333	.667	.667	3.000	3.667	3.667	3.667	16.335	2.041
25	40246	25	4.000	3.333	4.333	4.000	4.667	4.333	4.333	4.000	32.999	4.124
26	40247	26	5.667	3.333	1.333	3.667	4.333	3.000	1.667	3.333	26.332	3.291
27	40248	27	1.667	2.333	2.667	2.667	3.667	3.000	2.333	2.333	20.667	2.583
28	40249	28	3.000	1.667	.667	.667	.333	.667	1.000	1.333	9.333	1.166
29	40250	29	.667	.000	.333	1.000	.667	.333	.333	1.000	4.333	.541
30	40251	30	2.667	1.667	1.333	3.000	1.000	1.333	.333	.333	11.666	1.458
31	40252	31	.000	.333	1.000	2.333	2.333	3.000	1.667	2.000	12.666	1.583

GEOMAGNETIC PLANETARY INDICES  
PLANETARY AMPLITUDE THREE-HOURLY (AP3) INDICES

[illegible]

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD- JULIAN DAY	DAY	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																				
				SOLAR FLUX(10 <sup>-7</sup> CM-OFFWAVE)										RELATIVE ZURICH-SUNSPOT-NUMBER										RUNNING MEANS																														
				1-DAY										5-DAY										81-DAY										1-DAY							5-DAY							81-DAY						
				1-DAY										5-DAY										81-DAY										1-DAY							5-DAY							81-DAY						
1	40222	1	1	144.7	147.8	143.8	147.4	1	68	107.9	99.2	100.9																																										
2	40223	2	1	146.9	147.8	144.0	147.6	1	75	106.3	98.7	101.0																																										
3	40224	3	1	149.0	147.9	144.2	147.8	1	72	104.7	98.0	100.9																																										
4	40225	4	1	159.8	148.5	144.6	149.1	1	98	103.8	97.8	101.0																																										
5	40226	5	1	160.0	149.1	145.3	148.5	1	117	103.3	98.2	101.4																																										
6	40227	6	1	181.9	150.2	146.2	148.9	1	128	103.7	98.9	101.9																																										
7	40228	7	1	169.2	151.7	147.2	149.4	1	146	105.4	100.0	102.4																																										
8	40229	8	1	199.3	153.4	148.2	149.8	1	155	108.6	101.3	102.9																																										
9	40230	9	1	197.6	155.4	149.3	150.2	1	152	111.4	102.6	103.4																																										
10	40231	10	1	175.1	156.8	149.6	150.4	1	150	114.0	103.8	103.8																																										
11	40232	11	1	174.3	158.1	150.3	150.5	1	138	116.0	105.0	103.8																																										
12	40233	12	1	168.7	159.5	150.7	150.5	1	137	118.6	106.0	103.8																																										
13	40234	13	1	162.6	160.5	151.1	150.3	1	124	120.3	106.6	103.6																																										
14	40235	14	1	158.5	161.3	151.5	150.1	1	119	121.3	107.3	103.4																																										
15	40236	15	1	159.4	161.7	151.9	149.2	1	116	121.9	107.9	103.2																																										
16	40237	16	1	157.9	162.1	152.7	149.7	1	116	122.4	108.6	102.9																																										
17	40238	17	1	154.0	162.1	152.7	149.5	1	100	123.1	109.3	102.7																																										
18	40239	18	1	149.1	162.0	152.8	148.9	1	85	121.0	109.4	102.3																																										
19	40240	19	1	136.0	161.5	152.8	148.6	1	73	119.5	109.1	101.9																																										
20	40241	20	1	132.2	160.4	152.7	148.2	1	76	117.7	108.9	101.6																																										
21	40242	21	1	136.3	159.5	152.7	148.0	1	85	116.0	109.1	101.5																																										
22	40243	22	1	138.2	159.8	152.9	147.8	1	105	114.7	109.7	101.9																																										
23	40244	23	1	128.8	157.3	152.8	147.5	1	88	112.5	109.8	102.0																																										
24	40245	24	1	135.0	156.5	152.6	147.4	1	97	110.9	109.6	102.2																																										
25	40246	25	1	138.4	156.2	152.3	147.5	1	103	109.6	109.5	102.3																																										
26	40247	26	1	146.7	156.1	152.2	147.6	1	100	108.9	109.3	102.4																																										
27	40248	27	1	135.6	155.7	151.9	147.7	1	85	107.7	108.7	102.3																																										
28	40249	28	1	133.6	155.3	151.6	147.6	1	79	108.1	108.0	102.2																																										
29	40250	29	1	133.2	154.8	151.3	147.6	1	82	108.4	107.3	101.9																																										
30	40251	30	1	132.0	154.1	151.0	147.5	1	80	108.7	106.7	101.5																																										
31	40252	31	1	133.7	153.0	150.7	147.4	1	87	108.3	106.0	101.3																																										

MONTHLY AVERAGE 152.7  
MONTHLY SMOOTHED 153.2

104.4  
110.0

FEBRUARY 1969

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	40253	32	3.33	1.667	2.000	3.33	1.333	1.667	1.000	6.000	0.750
2	40254	33	3.33	1.667	2.000	2.000	4.667	8.000	6.667	25.000	3.125
3	40255	34	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
4	40256	35	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
5	40257	36	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
6	40258	37	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
7	40259	38	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
8	40260	39	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
9	40261	40	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
10	40262	41	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
11	40263	42	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
12	40264	43	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
13	40265	44	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
14	40266	45	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
15	40267	46	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
16	40268	47	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
17	40269	48	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
18	40270	49	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
19	40271	50	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
20	40272	51	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
21	40273	52	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
22	40274	53	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
23	40275	54	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
24	40276	55	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
25	40277	56	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
26	40278	57	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
27	40279	58	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166
28	40280	59	3.33	1.667	2.000	2.000	4.667	6.000	5.333	41.332	5.166

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE-THREE-HOURLY--(AP)--INDICES--

[illegible]

FEBRUARY 1969

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. DAY JULIAN DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		40253	40254	40255	40256	40257	40258	40259	40260	40261	40262	40263	40264	40265	40266	40267	40268	40269	40270	40271	40272	40273	40274	40275	40276	40277	40278	40279	40280
		32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
		133.7	143.2	143.3	141.8	142.6	142.5	144.2	138.0	137.0	133.1	132.3	127.9	129.4	128.2	128.0	131.1	137.6	142.7	153.5	162.7	173.0	188.0	205.7	210.2	211.3	198.7	203.9	184.0
		151.8	150.3	148.6	146.9	145.1	143.9	142.8	141.7	140.7	139.8	138.8	137.7	136.8	136.0	135.7	135.7	135.7	135.9	136.8	137.8	139.1	140.7	143.2	146.1	149.0	151.5	154.1	156.0
		150.4	150.3	150.2	150.1	150.3	150.3	150.5	150.6	150.6	150.5	150.3	149.9	149.4	149.0	148.6	148.0	147.6	147.3	147.0	147.2	147.6	148.4	149.5	150.7	151.9	152.8	153.6	153.9
		147.4	147.6	147.7	147.7	147.9	147.9	147.8	147.7	147.6	147.6	147.6	147.5	147.4	147.2	147.1	147.0	147.1	147.2	147.5	147.7	147.9	148.3	149.0	149.7	150.5	151.2	151.9	152.3
		92	96	98	86	94	101	122	109	102	85	74	64	55	54	70	87	104	101	126	142	169	198	207	215	208	189	171	155
		107.3	106.1	104.4	101.8	99.7	97.9	97.3	96.2	95.4	94.1	92.6	90.7	89.0	87.9	87.7	88.1	88.9	88.7	90.1	91.8	94.2	97.9	102.4	107.4	112.1	116.1	119.2	121.6
		105.3	104.9	104.9	105.2	105.6	105.9	106.6	107.4	107.9	107.7	107.2	106.5	105.6	104.4	103.6	102.9	102.4	101.7	101.3	101.4	101.9	103.4	105.0	107.8	110.2	112.4	113.7	114.4
		101.3	101.3	101.5	101.5	101.6	101.8	102.4	102.8	102.9	102.9	102.8	102.7	102.5	102.2	101.9	101.9	102.3	102.7	103.2	103.7	104.4	105.5	106.6	107.8	108.9	109.8	110.4	110.7
		101.3	101.3	101.5	101.5	101.6	101.8	102.4	102.8	102.9	102.9	102.8	102.7	102.5	102.2	101.9	101.9	102.3	102.7	103.2	103.7	104.4	105.5	106.6	107.8	108.9	109.8	110.4	110.7

MONTHLY AVERAGE 155.2  
MONTHLY SMOOTHED 150.2

120.5  
109.6



MARCH 1969

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY-THREE-HOUR(KP) INDICES

DAY OF MONTH	MOJ. DAY JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	40201 60	3.000	1.000	1.333	.667	1.667	3.333	3.000	2.667	16.667	2.083
2	40202 61	3.667	3.667	1.000	1.667	2.000	1.000	.667	1.667	15.333	1.916
3	40203 62	.667	.667	.333	.333	.667	.667	.667	.333	4.333	.541
4	40204 63	.000	.000	.000	.000	.333	.333	3.333	4.000	7.999	.999
5	40205 64	2.333	1.667	3.333	3.333	3.333	1.667	1.667	2.000	17.667	2.208
6	40206 65	2.667	2.000	2.000	3.000	1.667	4.333	3.667	2.333	21.667	2.708
7	40207 66	3.667	3.667	2.333	2.000	3.333	3.667	4.000	2.333	25.000	3.125
8	40208 67	3.000	3.000	1.667	3.000	2.667	1.000	2.000	3.000	19.333	2.416
9	40209 68	2.333	2.667	2.000	2.333	2.000	2.667	2.667	1.333	18.000	2.250
10	40210 69	2.000	2.000	1.667	2.000	.333	.333	1.667	1.000	11.000	1.375
11	40211 70	1.667	2.333	2.333	2.667	3.333	2.667	4.333	5.000	24.332	3.041
12	40212 21	5.667	6.000	5.667	4.333	3.333	3.667	3.333	1.667	33.666	4.208
13	40213 72	3.000	2.333	1.667	1.667	1.000	1.000	1.667	3.333	15.333	1.916
14	40214 73	2.333	1.333	1.000	1.000	1.667	1.333	2.333	3.333	14.332	1.791
15	40215 74	3.667	3.500	3.667	3.230	2.333	3.667	3.000	3.667	26.000	3.250
16	40216 75	1.000	3.667	4.667	4.333	2.333	1.667	1.333	1.667	20.667	2.583
17	40217 76	5.667	5.667	3.667	3.667	4.333	4.333	4.333	1.000	35.666	4.458
18	40218 77	1.000	4.000	3.667	2.333	1.000	2.333	1.333	2.333	17.998	2.249
19	40219 78	1.000	1.000	3.000	1.667	1.667	1.333	4.667	5.333	19.667	2.458
20	40220 79	5.333	3.667	3.333	2.333	1.667	3.667	3.000	4.000	27.000	3.375
21	40221 80	3.333	2.667	3.667	2.667	2.333	1.000	2.000	3.667	21.333	2.666
22	40222 81	2.667	3.667	2.333	2.000	2.667	2.333	2.667	1.333	19.667	2.458
23	40223 82	2.000	1.000	1.667	2.333	2.333	3.667	6.667	8.000	27.667	3.458
24	40224 83	8.000	6.333	6.667	7.000	5.333	3.333	1.667	1.667	40.000	5.000
25	40225 84	2.667	3.000	5.000	4.000	4.333	2.333	2.333	3.667	27.332	3.416
26	40226 85	3.333	1.667	1.667	5.000	2.333	2.333	1.667	2.333	18.332	2.291
27	40227 86	2.333	2.333	2.000	1.333	2.000	1.000	.333	.333	11.664	1.458
28	40228 87	1.000	1.667	1.667	1.333	1.667	2.667	1.333	1.000	12.333	1.541
29	40229 88	1.000	1.333	2.000	2.000	4.000	3.667	2.000	4.000	20.000	2.500
30	40230 89	3.667	3.000	2.000	1.667	1.000	3.000	3.333	4.667	22.333	2.791
31	40231 90	4.000	3.000	1.667	2.667	2.667	3.333	3.333	2.333	23.000	2.875

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY AMPLITUDE THREE-HOURLY--(AP)--INDICES

[illegible]

MARCH 1969

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD.-DAY JULIAN OF DAY YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
		40281	40282	40283	40284	40285	40286	40287	40288	40289	40290	40291	40292	40293	40294	40295	40296	40297	40298	40299	40300	40301	40302	40303	40304	40305	40306	40307	40308	40309	40310	40311
		60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
		168.6	156.9	153.6	152.5	152.8	150.8	149.6	149.2	148.9	139.6	138.2	140.2	135.6	143.5	143.6	176.7	164.7	212.8	213.2	215.4	232.4	224.1	207.0	196.6	182.0	192.0	170.4	173.0	182.5	183.3	185.9
		154.6	157.4	153.0	152.6	152.8	150.2	149.6	149.2	148.9	148.6	148.2	148.0	147.7	147.8	148.4	149.1	150.3	151.9	153.3	154.7	156.3	157.9	159.3	160.4	161.4	162.5	163.4	164.0	164.7	165.5	166.3
		156.4	157.7	152.3	152.7	152.8	150.8	149.6	149.2	148.9	153.1	153.0	152.7	152.5	152.3	152.4	152.6	153.1	153.7	154.3	155.2	156.2	157.2	158.0	153.6	159.0	159.4	159.5	159.5	159.4	159.3	159.3
		132	122.9	124.0	103	105	108	115	108	113	107	101	85	88	90	114	158	170	198	192	196	207	195	157	146	142	149	138	149	142	145	138
		114.5	110.9	112.9	111.8	111.3	112.6	110.5	110.2	110.1	109.9	109.6	109.3	109.4	109.7	110.4	111.8	113.0	115.0	116.8	118.5	120.5	122.5	123.9	125.1	126.3	127.4	128.3	129.1	129.9	131.0	131.8
		110.9	110.9	112.9	111.8	111.3	112.6	110.5	110.2	110.1	109.9	109.6	109.3	109.4	109.7	110.4	111.8	113.0	115.0	116.8	118.5	120.5	122.5	123.9	125.1	126.3	127.4	128.3	129.1	129.9	131.0	131.8

MONTHLY AVERAGE-172.3  
MONTHLY SMOOTHED 153.1

135.8  
108.0

APRIL 1969

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY-THREE-HOUR KP-INDICES

DAY OF MONTH	MOON DAY	DAY OF YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	40312	91	1.667	2.667	1.667	3.333	2.667	3.667	5.667	5.000	26.335	3.291
2	40313	92	2.667	1.667	1.333	2.667	2.667	4.000	4.333	3.667	23.000	2.875
3	40314	93	5.333	3.000	2.000	1.667	1.667	2.667	3.667	3.000	23.000	2.875
4	40315	94	2.333	3.000	2.667	2.000	2.667	1.667	3.000	2.333	19.667	2.458
5	40316	95	3.000	2.000	3.333	1.667	1.333	2.333	2.000	2.667	18.332	2.291
6	40317	96	3.000	2.333	2.333	.667	1.667	2.333	3.333	3.667	19.332	2.416
7	40318	97	3.667	4.667	4.333	2.000	2.333	3.000	4.333	2.000	26.332	3.291
8	40319	98	3.333	2.333	1.333	1.333	1.667	1.333	1.333	2.667	15.332	1.916
9	40320	99	1.333	2.667	2.333	2.333	2.333	2.667	4.000	2.667	29.332	2.541
10	40321	100	.667	1.333	2.333	1.333	1.333	2.667	2.333	1.000	12.998	1.624
11	40322	101	2.000	2.333	2.667	1.667	2.667	1.000	1.333	.333	14.000	1.750
12	40323	102	.333	.667	.333	1.000	1.333	1.667	4.333	4.333	13.998	1.749
13	40324	103	4.333	2.667	3.333	2.333	2.000	4.000	4.333	4.000	26.999	3.374
14	40325	104	5.000	2.667	1.667	2.000	2.333	2.333	3.000	3.667	22.667	2.833
15	40326	105	3.333	3.000	3.667	3.333	2.667	2.333	2.333	1.667	22.332	2.791
16	40327	106	2.333	3.333	3.333	2.667	3.333	3.000	4.000	3.667	25.665	3.208
17	40328	107	4.333	3.000	4.000	2.667	3.667	3.667	3.667	3.333	28.333	3.541
18	40329	108	4.667	4.000	3.333	2.333	1.667	1.333	1.667	2.667	21.667	2.708
19	40330	109	3.000	.333	.667	.333	1.333	.000	1.333	2.000	9.332	1.166
20	40331	110	2.333	1.333	1.667	.667	1.333	1.000	2.667	3.667	14.667	1.833
21	40332	111	3.667	.667	1.333	.667	.333	.667	1.333	2.000	10.666	1.333
22	40333	112	2.333	2.333	3.333	3.333	3.000	1.667	1.000	1.333	18.332	2.291
23	40334	113	1.333	1.667	1.000	1.333	1.667	1.333	1.333	1.333	10.998	1.374
24	40335	114	3.333	3.000	2.333	1.000	1.000	2.000	1.667	2.667	17.000	2.125
25	40336	115	3.667	2.333	2.333	1.667	1.667	1.667	1.667	1.667	16.667	2.000
26	40337	116	1.667	1.333	.667	.667	1.000	2.000	2.000	2.667	12.000	1.500
27	40338	117	3.333	2.667	2.333	2.667	2.000	2.000	3.000	1.333	19.332	2.416
28	40339	118	3.667	5.667	7.333	5.000	7.000	4.333	2.667	2.667	36.334	4.791
29	40340	119	2.667	2.333	2.667	1.000	1.667	2.667	3.000	4.000	20.000	2.500
30	40341	120	4.000	5.000	4.000	3.667	4.333	3.667	3.667	3.000	31.334	3.916

~~PLANETARY AMPLITUDE-THREE-HOURLY-(AP)-INDICES-~~

DAY OF MONTH	NOO. JULIAN DAY	DAY										MAGNETIC CHARACTER
		YEAR	1	2	3	4	5	6	7	8	AP	
1	40312	91	6	12	6	18	12	22	67	48	23.875	1.2
2	40313	92	12	6	5	12	12	27	32	22	16.000	.9
3	40314	93	56	15	7	6	6	12	22	15	17.375	.9
4	40315	94	9	15	12	7	12	6	15	9	10.625	.6
5	40316	95	15	7	18	6	5	9	7	12	9.875	.6
6	40317	96	15	9	9	3	6	9	18	22	11.375	.7
7	40318	97	22	39	32	7	9	15	32	7	20.375	1.0
8	40319	98	18	9	5	5	6	5	5	12	8.125	.4
9	40320	99	5	12	9	9	9	12	27	12	11.875	.7
10	40321	100	3	5	9	5	5	12	9	4	6.500	.3
11	40322	101	7	9	12	6	12	4	5	2	7.125	.4
12	40323	102	2	3	2	4	5	6	32	32	10.750	.6
13	40324	103	32	12	18	9	7	27	32	27	20.500	1.0
14	40325	104	48	12	6	7	9	9	15	22	16.000	.9
15	40326	105	13	15	22	18	12	9	9	6	13.625	.8
16	40327	106	9	18	18	12	18	15	27	22	17.375	.7
17	40328	107	32	15	27	12	22	22	22	18	21.250	1.1
18	40329	108	39	27	18	9	6	5	6	12	15.250	.9
19	40330	109	15	2	3	2	5	2	5	7	5.125	.2
20	40331	110	9	5	6	3	5	4	12	22	8.250	.4
21	40332	111	22	3	5	3	2	3	5	7	6.250	.3
22	40333	112	9	9	18	18	15	6	4	5	10.500	.6
23	40334	113	5	6	4	5	6	5	5	5	5.125	.2
24	40335	114	18	15	9	4	7	7	6	12	9.375	.5
25	40336	115	22	9	9	6	6	6	6	6	8.750	.5
26	40337	116	6	5	3	3	4	7	7	12	5.875	.3
27	40338	117	18	12	9	12	7	7	15	5	10.625	.6
28	40339	118	22	47	154	48	132	32	12	12	59.875	1.7
29	40340	119	12	9	12	4	6	12	15	27	12.125	.7
30	40341	120	27	48	27	22	32	22	22	15	26.875	1.2

APRIL 1969

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD- JULIAN DAY	DAY YEAR	DAY 27-DAY	54-DAY	81-DAY	RELATIVE ZURICH SUNSPOT NUMBER	RELATIVE ZURICH SUNSPOT NUMBER	RELATIVE ZURICH SUNSPOT NUMBER	RELATIVE ZURICH SUNSPOT NUMBER
1	40312	91	188.9	176.7	167.2	159.4	156	141.0	132.8
2	40313	92	191.6	178.6	168.0	159.6	143	142.0	133.2
3	40314	93	194.3	180.4	169.0	159.9	143	143.0	133.9
4	40315	94	177.1	181.8	169.7	160.1	122	143.5	134.2
5	40316	95	175.5	183.0	170.5	160.3	101	143.1	134.5
6	40317	96	162.3	183.8	171.1	160.3	78	142.0	134.6
7	40318	97	153.9	184.4	171.6	160.3	82	141.3	134.9
8	40319	98	147.2	184.6	171.9	160.2	77	141.0	135.3
9	40320	99	143.4	184.9	172.2	160.1	90	141.1	136.0
10	40321	100	148.3	185.2	172.6	160.3	85	140.9	136.3
11	40322	101	150.0	184.7	172.9	160.5	92	140.1	136.4
12	40323	102	154.7	183.9	173.2	160.7	91	137.6	136.1
13	40324	103	171.5	182.8	173.8	161.1	122	135.8	136.5
14	40325	104	178.3	181.5	174.2	161.7	149	134.0	136.9
15	40326	105	179.9	180.4	174.5	162.3	152	132.5	137.1
16	40327	106	165.9	178.5	174.4	162.6	144	130.6	136.7
17	40328	107	153.5	175.6	173.7	162.7	155	128.7	135.9
18	40329	108	145.5	172.7	172.6	162.8	148	126.9	134.8
19	40330	109	145.1	170.4	171.4	163.0	128	125.9	133.2
20	40331	110	147.8	168.6	170.3	163.2	124	125.0	131.6
21	40332	111	155.6	167.6	169.5	163.5	122	124.3	130.4
22	40333	112	146.2	165.9	168.4	163.7	90	122.1	128.9
23	40334	113	142.5	164.6	167.7	163.8	60	120.0	127.5
24	40335	114	143.0	163.3	167.2	163.8	81	117.0	126.5
25	40336	115	145.9	161.9	167.0	163.8	81	115.5	126.0
26	40337	116	141.9	160.4	166.9	163.8	78	113.0	125.5
27	40338	117	133.1	158.5	166.6	163.7	78	110.8	125.0
28	40339	118	133.0	156.4	166.5	163.6	72	107.7	124.4
29	40340	119	126.3	154.0	166.3	163.4	68	104.9	123.4
30	40341	120	127.2	151.7	166.0	163.2	72	102.3	122.6

MONTHLY AVERAGE 155.5  
MONTHLY SMOOTHED 150.0

106.8  
106.4

MAY 1969

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY-THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	40342 121	2.667	3.000	2.333	1.333	1.333	1.667	1.667	2.000	16.000	2.000
2	40343 122	1.667	2.667	2.000	2.667	4.667	6.333	6.333	3.333	26.000	3.500
3	40344 123	1.667	3.667	4.333	2.667	3.000	2.667	2.000	3.000	23.000	2.875
4	40345 124	2.000	2.667	1.667	1.333	2.000	2.000	2.333	2.000	16.000	2.000
5	40346 125	3.333	1.667	1.333	2.000	3.000	1.333	3.000	2.667	18.332	2.291
6	40347 126	2.000	3.000	2.333	1.333	1.333	1.000	1.667	2.333	14.998	1.874
7	40348 127	2.667	1.667	2.333	1.333	3.333	3.333	.000	.667	9.332	1.166
8	40349 128	1.000	1.000	.667	.333	1.333	2.333	1.333	2.333	10.332	1.291
9	40350 129	1.000	2.333	3.000	2.000	2.000	1.667	2.667	4.000	10.667	2.333
10	40351 130	2.333	3.000	3.333	2.000	2.667	2.000	1.333	1.667	18.332	2.291
11	40352 131	1.000	1.000	.667	2.000	1.333	1.667	1.333	.667	9.666	1.208
12	40353 132	.667	.333	.667	1.000	.667	1.000	3.000	4.000	11.333	1.416
13	40354 133	5.000	4.333	5.333	3.667	4.000	5.000	4.333	5.000	36.665	4.583
14	40355 134	5.667	4.000	3.667	4.000	3.000	3.667	6.667	6.667	37.335	4.666
15	40356 135	7.333	6.667	5.667	7.667	7.667	7.000	7.000	6.333	55.334	6.916
16	40357 136	6.333	5.667	6.000	5.000	3.667	1.667	2.333	3.000	33.666	4.208
17	40358 137	3.333	2.667	4.000	2.333	1.333	1.333	1.333	4.000	20.332	2.541
18	40359 138	3.667	2.667	3.000	3.000	2.000	4.000	5.000	3.000	26.333	3.291
19	40360 139	2.667	1.333	1.667	2.667	3.333	2.333	2.333	1.667	18.000	2.250
20	40361 140	2.667	2.333	2.333	1.333	1.333	2.333	2.333	2.000	15.664	1.958
21	40362 141	2.667	3.000	2.667	3.000	2.667	3.333	1.667	3.000	22.000	2.750
22	40363 142	1.667	1.667	1.667	3.667	3.333	2.667	2.333	1.667	18.667	2.333
23	40364 143	2.000	2.000	2.333	3.000	3.000	2.333	2.667	1.333	18.665	2.333
24	40365 144	1.333	3.333	2.333	1.667	2.667	2.333	2.333	2.667	18.665	2.333
25	40366 145	3.333	3.000	.333	.667	.667	1.333	2.000	1.667	13.000	1.625
26	40367 146	.667	1.667	1.000	1.000	.333	1.000	.667	1.333	7.666	.958
27	40368 147	.667	.333	.000	1.000	1.000	.667	1.000	1.333	6.000	.750
28	40369 148	1.000	2.667	2.333	2.333	2.667	3.000	.333	2.000	16.332	2.041
29	40370 149	.667	.667	.667	1.333	1.333	1.333	1.333	2.333	9.666	1.208
30	40371 150	1.667	1.333	2.667	3.000	2.333	3.667	1.333	3.000	19.000	2.375
31	40372 151	2.000	3.000	2.667	2.333	3.000	2.000	3.000	3.333	21.332	2.666

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY--AMPLITUDE--THREE--HOURLY--(AP)--INDICES--

[illegible]



MAY 1969

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	SOLAR-FLUX(10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER			RUNNING MEANS		
			DAILY	27-DAY	54-DAY	DAILY	27-DAY	54-DAY	DAILY	27-DAY	54-DAY
1	40342	121	123.0	149.6	165.7	163.0	1	90	101.1	122.3	123.2
2	40343	122	125.8	147.8	165.4	163.0	1	77	100.2	121.6	123.1
3	40344	123	129.7	146.6	165.2	162.9	1	70	99.9	121.0	123.0
4	40345	124	133.2	145.8	165.1	163.0	1	73	99.6	120.4	123.1
5	40346	125	131.4	146.0	165.3	163.3	1	88	100.0	120.5	123.6
6	40347	126	135.8	145.7	165.3	163.4	1	71	99.3	123.2	123.8
7	40348	127	127.4	144.9	165.1	163.3	1	57	98.3	119.6	123.6
8	40349	128	135.9	144.4	164.6	163.4	1	87	98.1	119.1	123.6
9	40350	129	132.9	143.6	163.8	163.4	1	81	97.7	117.6	123.3
10	40351	130	135.0	142.3	162.5	163.3	1	100	96.9	116.4	123.3
11	40352	131	147.2	141.1	161.3	163.2	1	125	96.0	115.0	123.3
12	40353	132	157.0	140.3	160.3	163.1	1	149	95.9	114.2	123.4
13	40354	133	154.9	139.7	159.1	162.8	1	155	96.3	113.4	123.2
14	40355	134	154.3	139.7	157.7	162.4	1	169	96.8	112.7	122.9
15	40356	135	155.4	140.1	156.4	161.8	1	146	96.7	111.8	122.1
16	40357	136	155.8	140.5	155.4	161.1	1	121	96.5	111.2	120.9
17	40358	137	160.4	141.0	154.8	160.5	1	124	96.5	110.8	119.9
18	40359	138	158.6	141.1	154.3	160.0	1	117	96.3	110.3	119.0
19	40360	139	153.9	141.4	153.6	159.4	1	120	97.4	109.8	118.4
20	40361	140	155.3	141.9	153.2	159.1	1	123	99.0	109.5	118.0
21	40362	141	166.5	142.7	153.0	159.0	1	163	102.7	109.9	118.4
22	40363	142	173.1	143.7	152.8	159.3	1	178	105.6	110.6	119.2
23	40364	143	168.4	144.7	152.5	159.5	1	198	110.1	111.6	120.4
24	40365	144	167.1	145.9	152.2	159.7	1	205	114.8	112.8	121.6
25	40366	145	164.2	147.1	151.7	160.1	1	182	118.9	113.3	122.5
26	40367	146	159.4	148.3	151.1	160.3	1	177	122.9	113.9	123.3
27	40368	147	149.5	149.2	150.4	160.4	1	145	125.6	113.9	123.6
28	40369	148	139.4	149.8	149.7	160.4	1	136	127.3	114.2	124.0
29	40370	149	119.3	149.5	140.7	160.1	1	88	127.7	114.0	123.7
30	40371	150	113.5	148.9	147.8	159.8	1	54	127.1	113.5	123.0
31	40372	151	108.9	148.0	146.9	159.4	1	50	126.3	112.9	122.4

MONTHLY AVERAGE 145.4  
MONTHLY SMOOTHED 152.8120.0  
106.2

JUNE 1969

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC-PLANETARY THREE-HOUR (KP) INDICES

DAY OF MONTH	MOO. DAY	DAY OF YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	40373	152	2.000	1.667	1.000	.667	2.333	1.000	1.667	.667	11.000	1.375
2	40374	153	.667	2.000	2.667	1.000	1.333	1.000	1.667	1.667	12.000	1.500
3	40375	154	1.667	.667	.667	.667	1.000	1.667	1.333	2.333	10.000	1.250
4	40376	155	2.000	1.333	2.000	1.333	1.667	1.333	.667	1.333	11.666	1.458
5	40377	156	2.000	1.000	1.333	2.667	1.000	1.000	1.333	.667	11.000	1.375
6	40378	157	.333	.667	.333	.333	1.000	1.333	1.000	2.000	6.999	.674
7	40379	158	2.333	1.333	1.667	2.000	3.333	2.333	1.000	1.000	14.998	1.874
8	40380	159	1.333	3.667	3.000	2.333	1.333	3.667	3.667	3.000	22.000	2.750
9	40381	160	2.333	2.000	1.000	2.000	3.333	3.000	4.667	3.333	21.665	2.708
10	40382	161	3.333	2.667	2.667	2.667	2.333	2.667	1.333	1.333	19.000	2.375
11	40383	162	1.667	1.667	2.667	1.667	2.000	1.000	2.333	2.667	15.667	1.958
12	40384	163	3.333	5.000	3.667	2.333	2.000	3.000	3.333	2.333	24.999	3.124
13	40385	164	3.000	4.333	2.667	1.667	2.667	3.000	2.667	3.333	23.333	2.916
14	40386	165	3.000	3.667	5.000	4.333	5.667	4.333	2.667	4.000	32.666	4.083
15	40387	166	2.333	2.667	2.000	2.000	2.667	1.667	2.333	1.667	17.333	2.166
16	40388	167	2.667	2.667	4.333	4.000	3.667	3.000	2.333	3.333	26.000	3.250
17	40389	168	4.333	4.333	3.667	3.000	1.333	3.000	3.667	1.333	24.665	3.083
18	40390	169	1.333	1.000	.667	.333	.667	1.667	1.333	.667	7.666	.958
19	40391	170	.667	1.333	2.333	2.333	1.667	1.333	1.000	2.000	12.664	1.583
20	40392	171	2.667	2.667	3.667	3.000	2.000	1.000	1.333	1.333	17.667	2.208
21	40393	172	2.000	1.000	1.333	1.667	2.333	1.000	1.333	.667	11.332	1.416
22	40394	173	.000	.667	.333	.667	.333	.667	.667	.333	3.667	.658
23	40395	174	.333	1.667	2.000	1.333	1.333	1.667	1.000	2.000	11.332	1.416
24	40396	175	3.000	3.000	2.333	2.000	3.333	2.333	2.000	2.667	29.665	2.583
25	40397	176	1.333	1.667	2.333	1.333	2.000	3.000	3.000	3.000	17.665	2.208
26	40398	177	2.000	1.667	1.333	2.333	2.333	1.667	1.000	1.667	14.000	1.750
27	40399	178	2.000	2.000	1.000	.667	1.667	1.333	.667	2.000	11.333	1.416
28	40400	179	1.333	1.000	.667	.667	.333	.667	1.000	1.000	6.666	.833
29	40401	180	.667	1.000	1.000	.667	1.000	1.000	1.333	1.000	7.666	.958
30	40402	181	1.000	1.000	1.000	.667	1.000	1.333	2.000	1.667	9.666	1.208

~~PLANETARY AMPLITUDE THREE HOURLY (AP) INDICES-~~[illegible]

JUNE 1969

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOO- JULIAN DAY	DAY	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
				40373	40374	40375	40376	40377	40378	40379	40380	40381	40382	40383	40384	40385	40386	40387	40388	40389	40390	40391	40392	40393	40394	40395	40396	40397	40398	40399	40400	40401	40402
				152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181
				110.1	117.8	129.6	154.5	172.6	193.7	215.7	231.5	278.7	336.2	339.2	229.6	221.6	216.6	194.3	169.3	152.3	149.0	142.3	140.3	135.2	128.8	127.4	124.8	116.4	113.3	110.4	114.4	119.7	132.3
				146.5	145.8	145.2	146.6	148.1	150.1	152.7	155.4	158.3	161.3	164.4	167.2	169.4	171.6	173.1	173.6	173.1	172.2	171.2	170.2	169.2	168.0	167.2	166.7	166.6	166.5	166.6	166.8	166.8	166.9
				146.2	145.8	145.4	145.5	145.8	146.2	146.9	147.8	149.0	150.5	152.3	153.8	155.2	156.3	157.2	157.7	157.9	157.9	158.0	158.1	158.1	158.2	158.2	158.2	158.0	157.7	157.3	156.6	156.3	156.4
				159.0	158.8	158.7	158.6	158.5	158.4	158.4	158.7	158.8	158.9	159.1	159.4	159.7	160.1	160.1	160.0	159.7	159.3	158.8	158.2	157.5	156.8	156.0	155.4	154.6	154.0	153.5	153.1	152.8	152.6
				32	47	74	77	116	157	187	190	185	192	195	187	178	166	149	134	105	102	86	97	84	56	43	43	51	28	35	49	63	71
				124.2	123.3	123.9	123.6	124.9	127.0	129.3	130.8	131.9	132.7	134.6	137.0	139.0	140.8	141.9	142.3	140.1	137.3	133.2	129.2	125.6	121.1	117.3	113.9	112.5	111.5	111.0	111.6	112.2	112.1
				112.1	111.3	111.1	110.8	111.3	111.9	112.6	113.3	114.1	114.8	115.6	116.7	117.7	118.6	119.6	120.6	121.1	121.5	121.6	122.0	122.2	122.0	121.4	120.6	120.1	119.3	118.6	117.9	117.7	118.0
				121.7	121.2	121.0	120.6	120.0	119.9	119.8	119.7	119.6	119.4	119.4	119.8	120.2	120.5	120.5	120.4	120.0	119.5	118.8	118.3	117.4	116.3	115.1	114.1	113.5	112.9	112.3	111.9	111.6	111.4

MONTHLY AVERAGE 162.2  
MONTHLY SMOOTHED 151.4

106.0  
106.0

JULY 1969

## GEOMAGNETIC PLANETARY INDICES

## QUASI-LOGARITHMIC PLANETARY-THREE-HOUR (KP) INDICES

DAY OF MONTH	MOON DAY	DAY OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	40403	182	2.333	2.333	5.000	2.000	3.333	2.333	4.000	2.667	23.999	2.999
2	40404	183	3.000	2.667	1.333	.667	.667	.333	.333	1.000	10.000	1.250
3	40405	184	.667	.667	.333	1.000	.667	1.000	.667	1.333	6.333	.791
4	40406	185	.667	.333	.333	.667	.333	.667	.333	1.000	4.333	.541
5	40407	186	.333	.667	.333	.667	.333	.333	.000	1.000	3.666	.458
6	40408	187	.667	.333	.667	.667	1.667	1.667	1.000	2.000	8.667	1.083
7	40409	188	1.000	1.667	.667	1.333	1.667	2.333	1.333	1.667	11.666	1.458
8	40410	189	1.000	1.000	1.000	.667	1.000	1.333	2.000	2.000	10.000	1.250
9	40411	190	2.667	2.000	2.000	1.000	1.667	1.667	1.333	1.667	14.001	1.750
10	40412	191	1.667	2.333	.667	1.667	2.667	1.333	1.000	2.333	13.666	1.708
11	40413	192	2.000	.667	1.000	.667	1.000	1.333	2.667	1.667	11.000	1.375
12	40414	193	3.000	2.333	3.000	1.333	1.667	1.333	2.667	4.000	19.332	2.416
13	40415	194	2.667	3.333	1.000	3.333	2.000	2.000	3.667	2.333	22.332	2.791
14	40416	195	2.333	4.667	2.333	1.667	3.333	2.000	2.000	2.000	20.332	2.541
15	40417	196	1.333	1.333	1.667	1.333	1.333	.667	1.000	2.000	10.666	1.333
16	40418	197	1.333	3.000	1.667	3.000	1.667	3.000	3.000	1.667	18.333	2.291
17	40419	198	1.333	1.333	1.000	.667	1.000	1.000	1.000	.667	8.000	1.000
18	40420	199	.000	.333	1.000	1.333	2.000	.667	.667	.333	6.333	.791
19	40421	200	.333	.667	1.333	.333	.333	.333	.333	.333	3.998	.499
20	40422	201	.667	.667	.667	1.333	1.000	1.000	.667	.333	6.333	.791
21	40423	202	1.333	.333	.667	.333	1.000	1.667	1.667	2.000	9.000	1.125
22	40424	203	1.667	1.667	2.333	1.000	1.667	2.333	1.667	2.667	15.001	1.875
23	40425	204	1.000	.667	.333	1.333	.333	2.000	2.667	2.000	10.332	1.291
24	40426	205	1.333	.667	1.333	.333	1.000	1.000	1.000	1.000	7.666	.958
25	40427	206	.667	1.667	1.000	.667	.667	.667	1.000	1.333	7.667	.958
26	40428	207	1.667	2.000	.667	3.333	5.667	3.000	1.667	4.667	22.667	2.833
27	40429	208	7.000	6.333	6.000	2.333	3.000	1.333	3.667	1.333	30.999	3.874
28	40430	209	1.333	1.000	2.000	.667	.333	.667	.667	1.333	8.000	1.000
29	40431	210	.667	.333	.333	.333	.333	.333	1.000	.333	3.666	.458
30	40432	211	1.667	.667	.667	1.333	1.333	4.000	4.667	3.000	17.333	2.166
31	40433	212	2.667	1.333	1.333	.667	1.667	1.333	1.333	1.667	12.000	1.500

# GEOMAGNETIC PLANETARY INDICES.

## PLANETARY--AMPLITUDE--THREE--HOURLY--(AP)--INDICES--

[illegible]

JULY 1969

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MO. JULIAN DAY	DAY YEAR	SOLAR FLUX (10.7 CM OTTAWA)					RELATIVE ZURICH SUNSPOT NUMBER				
			DAILY 27-DAY	54-DAY	91-DAY	DAILY 27-DAY	54-DAY	91-DAY	DAILY 27-DAY	54-DAY	91-DAY	DAILY 27-DAY
1	40403	182	144.3	166.6	156.6	152.5	152.5	125	113.9	119.7	111.8	111.8
2	40404	183	156.8	166.0	157.0	152.5	152.5	134	114.5	119.7	112.4	112.4
3	40405	184	162.0	164.9	157.5	152.4	152.4	167	114.9	120.9	112.9	112.9
4	40406	185	163.6	163.0	157.8	152.2	152.2	160	113.9	121.6	113.0	113.0
5	40407	186	161.1	160.4	157.9	152.0	152.0	145	112.2	121.5	113.0	113.0
6	40408	187	159.4	157.8	158.1	151.9	151.9	130	110.2	121.0	112.8	112.8
7	40409	188	161.2	155.0	153.2	152.0	152.0	123	107.6	120.2	112.4	112.4
8	40410	189	159.8	152.1	158.3	152.2	152.2	122	104.9	119.7	112.1	112.1
9	40411	190	163.3	149.5	159.4	152.4	152.4	122	102.5	119.8	112.0	112.0
10	40412	191	159.3	147.2	159.3	152.5	152.5	120	100.4	119.7	111.9	111.9
11	40413	192	152.9	144.9	158.2	152.5	152.5	120	98.7	119.7	111.9	111.9
12	40414	193	146.6	143.1	158.1	152.5	152.5	112	97.3	119.6	112.2	112.2
13	40415	194	143.5	142.0	157.8	152.5	152.5	98	96.0	119.1	112.4	112.4
14	40416	195	130.0	141.2	157.1	152.3	152.3	79	95.0	117.6	112.4	112.4
15	40417	196	122.5	140.2	156.2	152.0	152.0	77	94.1	115.7	112.3	112.3
16	40418	197	122.1	139.5	155.3	151.8	151.8	75	93.7	113.4	112.3	112.3
17	40419	198	123.2	138.7	154.5	151.6	151.6	78	93.0	111.1	112.3	112.3
18	40420	199	116.1	138.0	153.6	151.4	151.4	73	92.6	109.1	112.3	112.3
19	40421	200	114.3	137.5	152.7	151.3	151.3	66	92.9	107.0	112.3	112.3
20	40422	201	111.7	136.9	152.0	151.1	151.1	61	93.6	105.4	112.2	112.2
21	40423	202	112.1	136.4	151.5	150.9	150.9	62	94.3	104.1	111.8	111.8
22	40424	203	111.5	136.2	151.4	150.8	150.8	60	94.6	103.6	111.6	111.6
23	40425	204	112.9	136.2	151.4	150.6	150.6	55	95.6	103.6	111.4	111.4
24	40426	205	112.1	136.3	151.4	150.3	150.3	55	96.4	103.7	111.2	111.2
25	40427	206	114.1	136.3	151.5	149.8	149.8	53	96.5	104.1	110.8	110.8
26	40428	207	115.5	136.1	151.5	149.6	149.6	53	96.1	104.2	110.5	110.5
27	40429	208	123.1	135.8	151.4	149.5	149.5	57	95.6	103.9	110.5	110.5
28	40430	209	131.0	135.3	150.9	149.5	149.5	79	93.9	103.9	110.4	110.4
29	40431	210	133.0	134.4	150.2	149.5	149.5	95	92.5	103.5	110.6	110.6
30	40432	211	142.6	133.7	149.3	149.6	149.6	109	90.3	102.6	110.7	110.7
31	40433	212	162.1	133.6	148.3	149.8	149.8	137	89.5	101.7	110.9	110.9

MONTHLY AVERAGE--136.6  
MONTHLY SMOOTHED NO DATA

96.8

NO DATA

AUGUST 1969

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE-HOUR (KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	1	2	3	4	5	6	7	8	SUM	AVG. KP
1	40434 213	.667	1.000	.333	.667	1.000	.667	.667	.667	.667	5.667	.708
2	40435 214	.333	.000	1.667	2.000	2.333	2.667	3.000	3.333	3.667	21.667	2.708
3	40436 215	2.000	2.000	3.333	2.000	2.667	2.333	3.000	4.000	3.667	21.667	2.708
4	40437 216	3.667	3.333	2.000	2.667	2.333	2.000	2.667	1.000	2.667	14.000	1.750
5	40438 217	2.000	3.000	1.667	2.000	1.000	.667	.667	.667	.667	10.000	1.250
6	40439 218	2.667	2.333	1.333	1.000	.667	.667	.667	.667	.667	10.000	1.250
7	40440 219	1.667	2.000	1.667	2.333	2.000	1.000	1.000	2.667	2.667	16.000	2.000
8	40441 220	1.333	.667	2.000	3.333	2.667	2.000	1.667	1.667	3.000	16.667	2.083
9	40442 221	3.000	3.333	2.333	1.667	3.333	2.333	2.000	2.000	2.000	19.999	2.499
10	40443 222	1.667	2.333	2.000	3.000	3.000	1.667	1.667	.333	.000	12.666	1.583
11	40444 223	.000	.667	.333	1.000	1.000	1.000	1.000	1.333	1.667	7.000	.875
12	40445 224	3.667	3.333	3.333	4.000	4.000	4.000	4.000	3.333	2.333	27.999	3.499
13	40446 225	1.667	1.667	2.667	2.667	2.667	.333	1.000	1.000	2.000	13.000	1.625
14	40447 226	1.333	1.333	2.667	2.333	2.333	1.333	1.667	1.333	.000	11.998	1.499
15	40448 227	.333	.000	1.667	.333	.333	1.333	1.667	1.333	2.333	8.998	1.124
16	40449 228	.333	.000	.667	1.333	1.333	.667	1.000	.667	2.667	7.333	.916
17	40450 229	3.667	2.000	1.667	1.000	.333	.333	.667	1.333	.667	11.333	1.416
18	40451 230	2.333	1.333	.667	1.000	3.333	3.333	2.667	.667	1.000	13.000	1.625
19	40452 231	2.667	2.333	2.333	2.667	2.333	2.333	3.000	3.000	3.667	22.000	2.750
20	40453 232	2.000	2.333	2.667	1.333	1.333	1.333	1.000	1.000	2.000	13.666	1.708
21	40454 233	1.333	2.333	.333	.667	.667	1.667	1.667	2.000	1.667	11.666	1.458
22	40455 234	1.333	.333	.333	1.333	1.333	1.333	1.667	2.667	1.333	10.332	1.291
23	40456 235	3.000	3.333	2.333	2.667	2.333	2.333	2.000	2.333	2.000	19.999	2.499
24	40457 236	2.000	1.667	1.333	2.333	2.333	2.000	1.000	2.000	1.667	14.000	1.750
25	40458 237	2.667	1.333	.333	.333	.333	.333	.333	.000	.667	5.999	.749
26	40459 238	.667	1.333	1.667	5.000	5.000	3.667	1.667	1.667	3.667	19.335	2.416
27	40460 239	4.000	6.000	3.333	3.333	3.333	2.000	2.000	1.667	2.000	24.332	3.041
28	40461 240	2.667	2.000	1.000	.667	.667	2.000	1.000	1.667	.667	11.667	1.458
29	40462 241	1.000	.667	.667	1.000	1.000	1.333	1.667	.667	.333	7.333	.916
30	40463 242	.000	.667	1.667	1.000	2.000	2.000	.667	1.333	.667	8.000	1.000
31	40464 243	1.000	.333	2.000	1.667	1.667	1.000	1.000	1.333	1.333	9.666	1.208



# GEOMAGNETIC PLANETARY INDICES

## PLANETARY-AMPE!TUD...THREE-HOURLY--(AP)--INDICES-

[illegible]

DAILY SOLAR FLUX AND RELATIVE ZÜRICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD- JULIAN DAY	DAY YEAR	SOLAR-FLUX(10.7CM OTTAWA)			RELATIVE-ZURICH-SUNSPOT-NUMBER				
			DAILY 27-DAY	54-DAY	RUNNING MEANS	DAILY 27-DAY	54-DAY	RUNNING MEANS		
1	40034	213	170.6	134.0	147.2	149.9	175	90.6	101.4	111.2
2	40035	214	186.9	135.0	146.4	150.4	182	92.5	101.4	111.5
3	40036	215	183.3	135.8	145.4	150.7	177	94.5	101.1	111.6
4	40037	216	167.5	136.8	144.5	151.1	180	96.7	100.8	112.0
5	40038	217	182.4	137.7	143.6	151.5	171	98.5	100.5	112.7
6	40039	218	167.1	138.0	142.6	151.5	153	99.7	100.0	113.0
7	40040	219	153.7	138.2	141.5	151.5	139	100.4	99.5	113.3
8	40041	220	146.2	138.2	140.6	151.4	114	100.5	98.9	113.2
9	40042	221	141.5	138.2	140.1	151.3	108	100.9	98.4	113.0
10	40043	222	135.6	138.4	139.8	150.9	105	101.8	98.4	112.3
11	40044	223	132.3	138.8	139.5	150.4	86	102.1	98.1	111.2
12	40045	224	125.2	138.9	139.2	149.9	70	102.0	97.8	109.6
13	40046	225	120.0	138.9	138.0	149.3	62	101.4	97.2	107.8
14	40047	226	114.5	138.8	138.4	148.7	59	100.9	96.7	106.3
15	40048	227	112.6	138.7	138.1	149.1	62	100.7	96.8	104.9
16	40049	228	109.6	138.7	137.8	147.6	50	100.3	96.9	103.7
17	40050	229	105.3	138.4	137.4	147.2	41	99.5	96.9	102.6
18	40051	230	102.6	138.1	137.2	147.0	35	98.6	96.6	101.9
19	40052	231	101.5	137.7	136.9	146.8	32	97.7	96.7	101.6
20	40053	232	106.9	137.5	136.9	146.8	28	96.7	96.6	101.4
21	40054	233	113.6	137.5	136.9	146.8	39	96.2	96.4	101.4
22	40055	234	119.3	137.6	136.8	146.8	46	96.0	96.1	101.5
23	40056	235	130.3	137.8	136.8	146.8	62	96.2	95.9	101.3
24	40057	236	142.9	138.3	136.8	146.7	68	95.9	94.9	101.2
25	40058	237	151.5	138.9	136.7	146.4	77	95.1	93.8	100.7
26	40059	238	153.2	139.3	136.5	146.0	91	94.5	92.4	99.9
27	40060	239	164.3	139.4	136.5	145.3	104	93.3	91.4	98.9
28	40061	240	165.1	139.3	136.7	144.6	117	91.1	90.9	98.0
29	40062	241	174.1	138.9	136.9	143.9	143	89.7	91.1	97.5
30	40063	242	166.4	138.2	137.0	143.0	138	88.2	91.4	96.9
31	40064	243	160.7	137.2	137.0	142.1	121	86.0	91.4	95.9

MONTHLY AVERAGE 193.6  
MONTHLY SMOOTHED NO DATA

98.0  
NO DATA

## QUASI-LOGARITHMIC PLANETARY THREE-HOUR (KP) INDICES

DAY OF MONTH	MOD. OF JULIAN DAY	DAY YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG. KP
1	43465	244	1.333	1.667	.667	.333	.333	.333	.333	.333	5.332	.666
2	43466	245	.333	.667	.667	.333	.333	.333	.667	.333	2.999	.374
3	43467	246	.667	.333	.333	1.000	1.000	1.000	2.667	1.000	8.000	1.000
4	43468	247	1.000	1.667	.667	1.000	1.000	.667	1.667	1.000	8.667	1.000
5	43469	248	.333	.333	1.000	1.667	4.000	4.667	3.667	4.667	20.333	2.541
6	43470	249	4.333	4.667	3.667	4.000	2.000	2.667	1.333	3.000	25.667	3.208
7	43471	250	2.333	1.667	2.667	3.667	2.333	2.333	3.000	3.667	21.667	2.708
8	43472	251	3.333	4.667	5.000	4.000	2.000	1.667	1.000	.667	22.333	2.791
9	43473	252	1.667	2.333	2.667	2.667	2.333	3.000	1.000	2.333	18.000	2.250
10	43474	253	3.667	2.333	.333	.333	1.333	1.333	2.333	2.667	14.332	1.791
11	43475	254	3.333	2.333	2.333	2.333	1.667	1.000	2.333	1.000	16.333	2.041
12	43476	255	1.667	2.333	1.333	2.000	.667	.667	.667	.000	9.333	1.166
13	43477	256	.000	.667	.667	1.333	.333	.333	.333	.333	3.999	.499
14	43478	257	1.000	1.333	.333	1.000	1.000	2.667	4.000	4.000	15.332	1.916
15	43479	258	4.667	4.000	3.667	2.000	2.667	3.667	3.000	1.667	25.335	3.166
16	43480	259	2.667	3.333	1.667	1.333	1.000	.667	.667	1.667	13.001	1.625
17	43481	260	.667	.000	.333	3.333	3.333	3.333	3.667	2.667	17.332	2.166
18	43482	261	2.667	3.000	3.000	2.667	3.000	4.667	4.333	3.000	26.333	3.291
19	43483	262	3.000	3.667	2.000	2.000	2.000	1.000	1.000	2.333	17.000	2.125
20	43484	263	2.000	1.667	2.667	2.333	2.000	3.333	1.667	.667	16.333	2.041
21	43485	264	1.667	1.667	1.333	1.333	.667	1.000	.667	1.333	9.666	1.208
22	43486	265	1.000	1.000	1.333	.667	.333	.333	.333	.333	5.332	.666
23	43487	266	.333	.333	.333	.667	3.000	2.000	2.333	3.333	12.332	1.541
24	43488	267	1.333	2.333	1.333	2.667	.667	.667	.667	1.333	11.000	1.375
25	43489	268	2.000	3.333	1.000	1.333	2.000	2.667	1.333	2.000	17.665	2.208
26	43490	269	1.333	.667	1.333	1.667	.333	.333	.333	1.000	6.999	.874
27	43491	270	.000	.333	.333	.000	1.000	1.000	1.333	4.333	8.332	1.041
28	43492	271	2.667	3.667	3.000	7.000	6.333	4.333	3.667	5.000	35.666	4.159
29	43493	272	3.000	4.333	5.667	6.333	6.000	6.000	5.667	7.000	44.000	5.500
30	43494	273	0.000	7.000	6.333	6.667	6.000	4.000	5.333	2.667	46.000	5.750

# GEOMAGNETIC PLANETARY INDICES

## PLANETARY--AMPLITUDE--THREE--HOURLY--(AP)--INDICES--

[illegible]

SEPTEMBER 1969

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	YEAR	SOLAR FLUX (10.7CM-OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER			RUNNING MEANS			NUMBER		
			DAILY 27-DAY	DAILY 54-DAY	81-DAY	DAILY 27-DAY	DAILY 54-DAY	81-DAY	DAILY 27-DAY	DAILY 54-DAY	81-DAY	DAILY 27-DAY	DAILY 54-DAY	81-DAY
1	40465	244	153.5	136.2	136.9	141.1	1	105	83.6	91.0	94.9	91.0	90.6	93.8
2	40466	245	152.5	135.6	136.8	140.3	1	94	81.4	89.8	92.8	89.8	89.1	91.9
3	40467	246	149.2	135.3	136.7	139.4	1	81	79.3	87.7	90.7	87.7	87.0	89.5
4	40468	247	148.0	135.3	136.7	138.9	1	74	77.8	86.1	89.1	86.1	85.4	87.9
5	40469	248	136.0	135.1	136.7	138.4	1	71	76.4	84.8	87.8	84.8	84.1	86.6
6	40470	249	133.6	135.1	136.7	138.2	1	72	75.2	83.5	86.5	83.5	82.8	85.3
7	40471	250	126.4	134.8	136.0	137.9	1	71	74.6	82.9	85.9	82.9	82.2	84.7
8	40472	251	122.3	134.7	136.0	137.7	1	67	74.5	81.8	84.8	81.8	81.1	83.6
9	40473	252	115.7	134.6	136.7	137.4	1	51	74.1	81.3	84.3	81.3	80.6	83.1
10	40474	253	115.0	134.6	136.7	137.1	1	51	73.8	81.0	84.0	81.0	80.3	82.8
11	40475	254	117.5	134.8	136.8	137.3	1	67	74.0	81.2	84.2	81.2	80.5	83.0
12	40476	255	119.2	135.1	136.9	136.9	1	73	74.9	82.6	85.6	82.6	81.9	84.4
13	40477	256	129.5	136.0	137.2	137.0	1	91	76.7	84.9	87.9	84.9	84.2	86.7
14	40478	257	128.1	137.0	137.5	137.1	1	95	78.9	86.8	89.8	86.8	86.1	88.6
15	40479	258	133.8	138.2	137.9	137.4	1	114	82.0	89.9	92.9	89.9	89.2	91.7
16	40480	259	132.7	139.1	138.3	137.6	1	118	85.3	91.0	94.0	91.0	90.3	92.8
17	40481	260	132.0	139.8	138.6	137.8	1	123	88.4	92.3	95.3	92.3	91.6	94.1
18	40482	261	133.2	140.4	139.0	138.0	1	121	91.1	93.6	96.6	93.6	92.9	95.4
19	40483	262	130.3	140.4	139.1	139.0	1	89	92.1	94.2	97.2	94.2	93.5	96.0
20	40484	263	135.4	140.1	139.2	137.9	1	65	92.0	93.9	96.9	93.9	93.2	95.7
21	40485	264	136.7	139.5	139.2	137.6	1	75	91.9	93.5	96.5	93.5	92.8	95.3
22	40486	265	139.5	139.0	139.2	137.4	1	89	91.9	93.2	96.2	93.2	92.5	95.0
23	40487	266	144.5	138.3	138.9	137.1	1	91	91.4	92.3	95.3	92.3	91.6	94.1
24	40488	267	158.7	137.9	138.6	137.1	1	98	90.7	90.9	93.9	90.9	90.2	92.7
25	40489	268	168.5	137.7	138.3	137.2	1	119	89.8	89.7	92.7	89.7	89.0	91.5
26	40490	269	158.1	137.4	137.8	137.2	1	127	89.4	88.8	91.8	88.8	88.1	90.6
27	40491	270	150.7	137.1	137.1	137.0	1	123	89.4	87.7	90.7	87.7	87.0	89.5
28	40492	271	142.1	136.6	136.4	136.8	1	117	89.9	86.7	89.7	86.7	86.0	88.5
29	40493	272	139.5	136.2	135.9	136.6	1	107	90.4	85.9	88.9	85.9	85.2	87.7
30	40494	273	136.6	135.7	135.5	136.4	1	99	91.0	85.1	88.1	85.1	84.4	86.9

MONTHLY AVERAGE 137.3  
MONTHLY SMOOTHED NO DATA

91.3  
NO DATA

GEOGRAPHIC PLANETARY INDICES

QUASILOGARITHMIC PLANETARY THREE-HOUR (KP) INDICES--

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	KP	KP	KP	KP	KP	KP	KP	KP	KP	SUM KP	AVG. KP
1	2	3	4	5	6	7	8	9	10	11	12	13
1	40495 274	4.333	2.667	3.667	4.000	3.667	3.667	2.667	3.000	27.667	3.458	
2	40496 275	4.667	4.000	4.667	4.667	4.000	5.333	3.000	2.000	32.334	4.041	
3	40497 276	4.000	3.333	2.333	3.000	4.000	4.000	3.000	.667	34.041	3.601	
4	40498 277	2.333	2.333	2.000	2.667	1.333	3.667	2.333	1.000	17.665	2.208	
5	40499 278	2.333	2.000	1.667	1.333	1.667	1.000	2.333	1.333	13.666	1.700	
6	40500 279	2.667	3.333	3.000	3.000	3.000	4.000	3.000	2.000	24.000	3.000	
7	40501 280	2.000	3.333	2.333	1.333	.667	.667	.333	1.000	11.666	1.458	
8	40502 281	.000	.667	1.000	.333	.667	1.000	1.667	1.333	6.666	.833	
9	40503 282	.667	.667	1.000	.333	.000	2.000	4.000	4.000	12.666	1.583	
10	40504 283	3.333	4.333	3.333	3.667	3.000	2.333	4.333	3.667	27.999	3.499	
11	40505 284	2.333	2.333	2.333	2.667	3.000	2.333	1.667	2.000	18.665	2.333	
12	40506 285	3.000	2.333	3.333	1.333	2.333	2.333	1.333	.000	15.990	1.999	
13	40507 286	.000	.333	1.667	3.000	1.000	.667	1.667	.333	8.666	1.083	
14	40508 287	.333	.667	.333	.000	.667	.667	1.667	1.000	5.333	.666	
15	40509 288	.000	1.000	1.667	1.333	.333	.333	1.000	1.000	6.666	.833	
16	40510 289	.333	.667	1.000	.667	1.333	2.333	2.000	1.667	10.000	1.250	
17	40511 290	1.333	.667	.333	1.000	.333	.333	1.333	3.667	8.998	1.124	
18	40512 291	3.000	1.667	2.333	2.333	.667	.333	2.000	.667	13.000	1.625	
19	40513 292	2.667	2.333	3.000	2.667	3.000	1.333	2.000	1.667	18.667	2.333	
20	40514 293	1.667	1.333	.667	.667	.667	.667	1.667	2.333	9.667	1.208	
21	40515 294	1.333	1.000	2.667	2.000	1.333	3.333	2.000	2.000	15.666	1.956	
22	40516 295	1.667	2.333	2.000	2.667	1.667	2.333	1.667	.667	15.001	1.875	
23	40517 296	1.333	1.333	.667	.333	.000	.333	1.333	2.333	7.665	.958	
24	40518 297	3.333	4.000	3.000	3.000	2.333	2.000	1.667	3.000	22.332	2.791	
25	40519 298	2.667	2.333	1.000	.667	.333	.333	1.667	3.000	12.000	1.500	
26	40520 299	.667	1.000	2.333	.667	1.000	.333	1.333	.667	8.000	1.000	
27	40521 300	1.000	1.000	1.667	1.667	2.000	2.000	3.333	2.667	15.333	1.916	
28	40522 301	2.333	2.333	1.000	.333	1.333	1.667	2.333	2.000	13.332	1.666	
29	40523 302	.667	2.333	1.000	.333	.333	.667	1.667	1.000	8.000	1.000	
30	40524 303	.000	.000	.667	.333	.000	.333	.000	.000	1.333	.166	
31	40525 304	.667	2.000	2.000	2.000	2.000	1.000	.333	1.667	11.666	1.458	

## PLANETARY--AMPLITUDE--THREE--HOURLY--(AP)--INDICES--

[illegible]

DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY	DAY YEAR	SOLAR FLUX (10.7CM OTTAWA)			RELATIVE ZURICH SUNSPOT NUMBER			
			DAILY 27-DAY	54-DAY	81-DAY	DAILY 27-DAY	54-DAY	81-DAY	
1	40476	274	133.6	135.2	136.2	99	92.0	84.9	90.1
2	40477	275	143.1	135.4	136.2	101	93.1	84.7	90.1
3	40478	276	132.4	135.0	136.3	99	94.1	84.6	90.4
4	40479	277	132.2	135.6	136.4	99	95.1	84.9	90.6
5	40480	278	140.9	136.3	136.5	109	96.7	85.6	91.0
6	40500	279	143.3	137.3	136.9	120	99.2	86.7	91.6
7	40501	280	145.1	138.4	137.3	123	101.9	87.9	92.2
8	40502	281	150.4	139.6	137.7	109	103.4	88.7	92.7
9	40503	282	142.1	140.5	138.1	93	104.2	89.5	93.1
10	40504	283	137.1	140.8	138.4	85	104.0	90.3	93.4
11	40505	284	133.6	140.9	138.6	72	103.1	91.0	93.5
12	40506	285	128.5	140.7	139.4	60	101.1	91.5	93.6
13	40507	286	124.9	140.4	139.7	57	98.9	92.1	93.6
14	40508	287	119.7	139.9	139.9	63	96.6	92.5	93.8
15	40509	288	118.4	139.4	139.9	54	94.1	92.6	93.8
16	40510	289	116.2	138.8	139.6	47	92.6	92.4	93.6
17	40511	290	123.2	138.4	139.2	42	91.7	91.9	93.2
18	40512	291	129.9	138.1	138.8	45	90.6	91.3	92.6
19	40513	292	147.0	138.4	138.7	50	89.2	90.5	91.8
20	40514	293	163.4	139.1	138.7	87	89.0	90.2	91.2
21	40515	294	170.6	139.7	138.9	102	89.2	89.9	90.3
22	40516	295	189.1	140.6	139.2	113	89.0	89.4	89.5
23	40517	296	195.1	141.9	139.7	127	89.0	89.2	88.9
24	40518	297	206.8	144.0	140.5	137	89.5	89.5	88.3
25	40519	298	206.5	146.4	141.5	141	90.4	90.1	87.9
26	40520	299	207.1	148.9	142.5	145	91.8	91.1	87.9
27	40521	300	203.4	151.4	143.5	145	93.5	92.3	87.9
28	40522	301	192.1	153.6	144.4	131	94.7	93.3	88.1
29	40523	302	174.9	154.7	145.1	120	95.4	94.2	88.3
30	40524	303	164.0	155.9	145.6	104	95.6	94.8	88.3
31	40525	304	156.2	156.8	146.2	87	95.1	95.1	88.3

MONTHLY AVERAGE 154.0  
MONTHLY SHOOTING NO DATA

95.7  
NO DATA



NOVEMBER 1969

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY-THREE HOUR(KP) INDICES

DAY OF MONTH	MOD. DAY JULIAN OF YEAR	1	2	3	4	5	6	7	8	SUM KP	AVG, KP
1	40526 325	1.000	.667	.333	.333	.333	.667	.333	1.000	4.666	.583
2	40527 326	2.667	1.667	1.667	2.333	2.667	2.667	3.333	3.000	20.000	2.500
3	40528 327	3.000	3.667	3.667	2.333	2.000	3.000	3.667	3.000	24.333	3.041
4	40529 328	1.667	2.667	1.667	2.333	.667	.667	1.000	1.000	11.667	1.458
5	40530 329	1.667	1.667	.667	1.667	2.000	2.667	.333	1.000	11.667	1.458
6	40531 310	.667	.667	.667	.333	.000	.333	1.000	1.333	5.000	.625
7	40532 311	3.333	2.667	2.333	2.000	3.333	2.000	3.333	2.333	21.332	2.666
8	40533 312	2.000	2.667	2.000	1.000	2.667	3.333	4.000	3.667	21.667	2.708
9	40534 313	3.000	5.333	5.000	5.333	5.333	5.667	4.000	2.000	35.332	4.416
10	40535 314	2.000	4.667	5.333	4.667	5.667	4.000	4.667	3.667	34.667	4.333
11	40536 315	2.333	1.000	2.667	2.667	2.667	3.333	2.667	2.000	19.333	2.416
12	40537 316	3.333	1.667	1.333	1.667	.667	2.000	1.000	1.333	13.000	1.625
13	40538 317	1.333	1.333	1.000	1.333	1.667	2.000	1.000	1.333	10.666	1.333
14	40539 318	1.333	1.333	.000	.333	.000	.000	.000	.333	3.332	.416
15	40540 319	.000	.000	.333	.333	.333	.333	.333	.333	1.998	.249
16	40541 320	.000	.333	.333	.333	.000	1.333	1.667	1.000	4.666	.583
17	40542 321	.667	.667	.333	.333	.333	1.333	1.333	1.333	6.332	.791
18	40543 322	1.000	.667	1.000	.667	.667	2.000	1.667	1.000	8.667	1.083
19	40544 323	.667	.667	1.333	1.333	1.667	1.333	3.000	3.000	13.000	1.625
20	40545 324	2.667	1.333	1.000	.667	.333	.333	.667	1.000	8.000	1.000
21	40546 325	.333	.333	.333	.667	.667	1.000	.000	.667	3.667	.450
22	40547 326	3.000	3.333	2.667	2.000	1.333	1.333	2.667	1.667	18.000	2.250
23	40548 327	.667	.667	1.000	1.000	.333	2.000	2.000	2.000	9.666	1.208
24	40549 328	.667	.667	1.333	2.333	1.667	2.333	2.000	2.333	13.332	1.666
25	40550 329	1.000	.333	2.000	2.000	2.000	2.000	1.333	2.333	12.998	1.624
26	40551 330	3.000	3.333	1.667	1.000	1.333	3.333	3.000	2.000	18.332	2.291
27	40552 331	1.333	4.333	4.000	4.333	3.667	4.000	3.000	3.000	27.665	3.458
28	40553 332	2.667	2.000	3.000	2.000	1.333	.667	1.667	3.333	16.667	2.083
29	40554 333	2.333	1.333	3.333	2.333	3.333	3.000	3.667	3.333	22.664	2.833
30	40555 334	4.333	4.000	3.667	3.000	1.333	3.333	3.333	1.667	24.665	3.083

PLANETARY. AMPLITUDE--THREE--HOURLY--(AP)--INDICES--

539

NOVEMBER 1969

## DAILY SOLAR FLUX AND RELATIVE ZURICH SUNSPOT NUMBER ACTIVITY

DAY OF MONTH	MOD. JULIAN DAY YEAR	SOLAR FLUX(10.7CM OTTAWA)		RELATIVE ZURICH SUNSPOT NUMBER		RUNNING MEANS		DAILY 27-DAY		DAILY 54-DAY		DAILY 91-DAY	
		1	2	1	2	1	2	1	2	1	2	1	2
1	40526 305	141.5	156.8	146.5	142.6	1	82	94.1	95.4	88.7			
2	40527 306	141.2	156.7	147.0	142.9	1	68	92.2	95.7	88.5			
3	40528 307	128.0	156.1	147.3	143.3	1	83	90.7	96.3	83.8			
4	40529 308	131.8	155.4	147.5	143.3	1	86	89.9	96.6	89.1			
5	40530 309	132.3	155.1	147.8	143.6	1	88	89.7	96.9	89.6			
6	40531 310	134.3	155.7	147.9	143.9	1	98	90.1	97.1	90.3			
7	40532 311	130.3	155.3	148.1	144.4	1	97	91.1	97.1	91.0			
8	40533 312	132.9	155.4	148.0	144.8	1	89	92.1	96.6	91.7			
9	40534 313	133.2	155.6	148.0	145.0	1	94	93.5	96.2	92.6			
10	40535 314	125.3	155.8	147.9	145.2	1	85	94.3	95.5	93.1			
11	40536 315	124.5	156.1	147.7	145.3	1	81	95.3	94.7	93.5			
12	40537 316	124.9	156.4	147.6	145.2	1	76	96.4	94.5	93.7			
13	40538 317	129.3	156.6	147.5	145.0	1	67	97.3	94.5	93.7			
14	40539 318	137.0	156.9	147.5	144.8	1	67	98.1	94.4	93.6			
15	40540 319	141.0	156.6	147.5	144.7	1	68	98.8	94.0	93.3			
16	40541 320	144.8	156.1	147.6	144.5	1	67	98.1	93.6	92.8			
17	40542 321	163.9	155.6	147.7	144.5	1	75	97.1	93.1	92.3			
18	40543 322	181.4	155.3	147.9	144.5	1	86	96.1	92.5	91.6			
19	40544 323	189.8	155.1	148.5	144.8	1	94	94.9	91.9	91.1			
20	40545 324	193.5	154.6	149.3	145.2	1	123	94.3	91.9	91.1			
21	40546 325	203.1	154.5	152.5	145.8	1	127	93.8	92.1	91.4			
22	40547 326	210.6	154.6	151.8	146.6	1	132	93.3	92.6	91.8			
23	40548 327	214.9	155.1	153.2	147.4	1	129	92.7	93.1	92.4			
24	40549 328	208.1	155.6	154.6	148.1	1	119	92.3	93.5	93.0			
25	40550 329	193.7	156.2	155.4	148.8	1	118	92.2	93.8	93.6			
26	40551 330	183.0	156.8	156.3	149.3	1	113	92.6	94.1	94.1			
27	40552 331	177.6	157.5	157.2	150.0	1	109	93.4	94.2	94.5			
28	40553 332	161.2	158.3	157.5	150.5	1	102	94.1	94.1	95.0			
29	40554 333	145.4	158.4	157.6	150.8	1	92	95.0	93.6	95.5			
30	40555 334	143.4	158.9	157.5	151.1	1	90	95.3	93.0	95.9			

MONTHLY AVERAGE 156.7

93.5

MONTHLY SMOOTHED NO DATA

NO DATA

DECEMBER 1969

GEOMAGNETIC PLANETARY INDICES

QUASI-LOGARITHMIC PLANETARY THREE-HOUR(KP) INDICES

DAY OF MONTH	MOD. JULIAN DAY YEAR	KP 1	KP 2	KP 3	KP 4	KP 5	KP 6	KP 7	KP 8	SUM KP	AVG. KP
1	40556 335	1.000	1.000	1.333	2.000	1.333	1.333	1.000	1.000	9.998	1.249
2	40557 336	.333	.667	1.667	.667	1.333	1.000	1.000	.667	7.333	.916
3	40558 337	.333	.333	.333	.000	.333	2.000	2.000	2.667	6.332	.791
4	40559 338	1.333	2.000	1.333	1.667	2.667	2.333	1.667	1.000	14.000	1.750
5	40560 339	1.000	2.333	3.000	3.333	3.333	3.667	4.000	4.333	24.999	3.124
6	40561 340	4.000	4.333	3.333	2.667	3.333	3.000	3.000	3.333	26.999	3.374
7	40562 341	1.333	.667	1.333	1.667	.667	1.000	1.333	2.000	10.000	1.250
8	40563 342	1.667	1.667	1.667	.333	.667	1.333	2.000	1.667	11.000	1.375
9	40564 343	3.667	4.000	1.667	1.667	2.333	2.667	.667	2.000	18.667	2.333
10	40565 344	.667	.333	1.000	1.000	.333	1.333	2.333	4.333	11.332	1.416
11	40566 345	4.000	2.667	3.000	1.000	2.333	2.000	1.667	1.333	18.000	2.250
12	40567 346	1.667	2.667	1.333	1.333	.667	.333	.333	1.000	9.332	1.166
13	40568 347	1.667	1.333	.667	.000	.667	.333	1.000	.333	6.000	.750
14	40569 348	.667	.333	.333	1.333	.667	1.667	1.000	1.000	7.000	.875
15	40570 349	1.000	1.000	1.000	1.667	.667	1.667	1.667	1.333	10.000	1.250
16	40571 350	3.667	2.000	2.667	2.333	2.000	2.667	2.333	2.333	20.000	2.500
17	40572 351	2.333	1.000	.333	1.333	.333	.667	1.667	1.000	8.666	1.083
18	40573 352	2.000	1.000	.333	.667	.333	.333	.667	.667	6.000	.750
19	40574 353	1.000	1.000	.333	.667	1.333	.667	1.000	.667	7.332	.916
20	40575 354	1.000	.333	.333	.667	.333	.333	.667	.667	4.333	.541
21	40576 355	1.000	2.000	.333	.333	.333	.333	.333	1.000	5.665	.709
22	40577 356	1.333	.333	2.333	1.333	3.000	2.667	1.667	1.333	13.998	1.749
23	40578 357	1.667	2.667	1.667	2.333	3.333	2.333	3.000	2.667	19.667	2.458
24	40579 358	3.333	2.000	1.000	2.333	2.667	1.667	2.000	2.333	17.332	2.166
25	40580 359	1.333	2.667	3.000	2.333	2.667	2.333	2.000	1.667	18.000	2.250
26	40581 360	1.667	1.333	2.667	1.333	.667	3.000	3.000	3.000	16.667	2.083
27	40582 361	3.667	2.667	1.667	3.333	1.333	1.333	1.000	.333	15.332	1.916
28	40583 362	.333	.333	.333	1.000	.333	2.333	1.000	1.333	6.998	.874
29	40584 363	1.667	1.000	1.333	1.333	1.333	1.333	.667	.333	8.998	1.124
30	40585 364	.333	1.000	.000	.667	.667	.333	.667	.667	4.333	.541
31	40586 365	.000	1.000	.333	.667	.667	.333	1.333	1.000	5.333	.666

APPROVAL

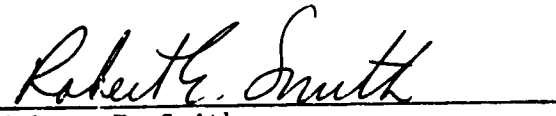
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SOLAR INDICES FOR THE PERIOD JANUARY 1, 1955 THROUGH DECEMBER 1, 1969

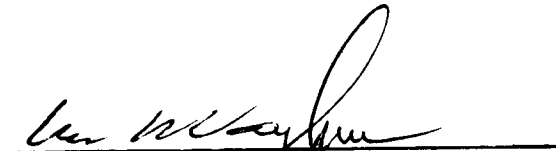
by H. C. Euler

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